

In order to be considered as a responsive bidder, bidders must obtain plans, specifications, and proposal blanks from the office of the Engineering Department at 2436 30th St. N.E., for the sum of \$55.00 payment. The City will not make any refunds for plans returned.

Canton, Ohio

CANTON CITY ENGINEERING DEPARTMENT

Construction Contract and Specifications

===== FOR =====

Waynesburg Drive SE Sanitary Sewer Rehabilitation (REVISED)

GENERAL PROJECT NO. 1137

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LEGAL NOTICE

Sealed bids will be received by the Director of Public Service of the City of Canton, Ohio/Contract Office, 218 Cleveland Ave. S.W., 6th Floor, City Hall Building, Canton, OH 44702 until 2:00 p.m., May 11, 2011 for GP 1137, Waynesburg Drive SE Sanitary Sewer Rehabilitation (REVISED), as per plans and specifications on file in the Engineering Department at 2436 30th St. N.E.

Please be advised that the Bid Opening will be held in the conference room located on the sixth floor of the City Hall building. Any bid that is not submitted on or before 2:00 p.m. on the day of the Bid Opening will be disqualified. Bids received will be opened and publicly read immediately after the expiration of the time for filing such bids.

Project Labor Agreement (PLA) **will not** be required for this project.

Bidders must be **ODOT Pre-qualified** for the bid to be accepted.

The estimated construction cost for this project is \$124,292.00. Each bidder must submit evidence of its experience on projects of similar size and complexity.

The proposal blanks provided in the bid package must be used in submitting bids. No other submittals will be accepted.

Each bid must contain the name of every person or company interested in the same and be accompanied by a certified check, cashier's check, or surety bond, in accordance with Section 153.54 of the Ohio Revised Code, drawn on a solvent bank or bonding company licensed in the State of Ohio to provide said surety and satisfactory to the Director of Public Service as a guarantee that if the bid is accepted, a contract will be entered into and its performance properly secured.

Said certified check or cashier's check shall be in the amount of ten percent (10%) of the total amount bid. Where a bid bond is used, it shall be in an amount of one hundred percent (100%) of the total amount of the bid.

The City of Canton will only accept original checks and bid bonds. Therefore, if any company and/or bidder(s) submit a copy (including faxed copies) of his/her security, the bid will be disqualified.

Should any bids be rejected, such Bond, Certified Check or Cashier's Check shall be returned upon the proper execution and securing of the contract.

The Director of Public Service reserves the right to waive any technical defects in any bid bond submitted so long as the bond is in substantial compliance with State Law.

The Party awarded contract should be prepared to furnish surety bond for faithful performance. All bids must be firm bids. Bids containing an escalator clause will not be considered.

In order to be considered as a responsive bidder, bidders must obtain plans, specifications, and proposal blanks. Bidders may obtain plans, specifications, and proposal blanks at the office of the Engineering Department at 2436 30th St. N.E., upon the payment of the sum of \$55.00. No refunds will be made for plans returned.

All contractors and subcontractors involved with the project will, to the extent practicable use Ohio products, materials, services, and labor in the implementation of their project.

Bidders must comply with prevailing wage rates on Heavy and Highway construction projects for the State of Ohio as included in the contract documents.

The Board of Control reserves the right to reject any and all bids. The Board of Control will accept the bid(s) deemed most beneficial to the City of Canton.

It is now the City's policy that for IRS purposes, all companies must submit their Federal I.D. number.

By order of Warren Price, Canton City Service Director.

Published in the Repository: April 26 and May 3, 2011.

NOTICE TO CONTRACTORS

SECTION 181.03 - IMPOSITION OF TAX

(b) (1) No contract on behalf of the City for works or improvements of the City shall be binding and valid unless such contract contains the following provisions:

Said contractor hereby further agrees to withhold all City Income Taxes due or payable under Chapter 181 of the Codified Ordinances for wages, salaries, fees and commissions paid to its employees and further agrees that any of its sub-contractors shall be required to agree to withhold any such City Income Taxes due for services performed under this contract. Furthermore, any person, firm or agency that has a contract or agreement with the City shall be subject to City Income Tax whether a resident or non-resident of the City, and whether the work being done is in the City or out of the City. In addition to the tax withheld for employees, the net profit on the contract shall be subject to City Income Tax.

SECTION 5719.042 - DELINQUENT PERSONAL PROPERTY TAXES STATEMENT REQUIRED

The successful bidder shall be required to furnish the following upon execution of the contract: A statement affirmed under oath pursuant to Section 5719.049 of the Ohio Revised Code that the successful bidder was not charged at the time the bid was submitted with any delinquent personal property taxes on the general tax list of Stark County or, that the successful bidder was charged with delinquent personal property taxes on any such tax list, in which case the statement shall also set forth the amount of such due and unpaid taxes and any due and unpaid penalties and interest thereon. If the statement indicates that the successful bidder was charged with any such taxes, a copy of the statement shall be transmitted by the City Auditor to the County Treasurer within thirty (30) days of the date it is submitted. NOTE: A copy of the statement shall also be incorporated in the contract, and no payment shall be made with respect to any contract to which this section applies unless such statement has been so incorporated as a part thereof.

CERTIFICATE OF WORKMEN'S COMPENSATION AND CERTIFICATE OF LIABILITY INSURANCE

You are hereby required and directed to turn over to the City of Canton copies of the Certificate of Workmen's Compensation and Certificate of Liability Insurance carried by you. This information must be furnished to the City of Canton Engineering Department, 2436 30th St. NE, Canton OH 44705, and prior to starting work on any contract.

Example of certificate form follows.

**THIS FORM MUST BE COMPLETED WHETHER YOUR COMPANY IS LOCATED
INSIDE THE CITY OF CANTON OR NOT**

AFFIDAVIT OF PERSONAL PROPERTY TAX STATUS

PROJECT NAME _____

BIDDER'S NAME _____

BIDDER'S ADDRESS

DATE _____

The successful bidder is required to circle one of the following in accordance with O. R. C. Section 5719.042

STATE OF OHIO)
) SS: AFFIDAVIT
 STARK COUNTY)

After being duly sworn, the undersigned deposed and stated that:

(1) _____, as of _____
NAME OF COMPANY

DATE _____

WAS CHARGED/WAS NOT CHARGED

(circle one which applies)

with any delinquent personal property taxes on the general tax list of personal property in Stark County, OH

NAME OF BUSINESS

BY: _____
TITLE _____

Sworn to and subscribed by me this _____ day of _____, 20____.

NOTARY PUBLIC

CERTIFICATES OF INSURANCE AND WORKMEN'S COMPENSATION
FOR CITY OF CANTON-PROJECTS OVER \$100,000.00

(to be submitted in triplicate)

HAZARD INSURANCE

The Contractor shall take out and maintain during the life of this and subsequent contracts with the City of Canton, Insurance Coverage with a company satisfactory to the Director of Public Service, which will protect the Contractor and Sub-contractor, as well as the City, from all claims arising from contractual obligations with the City. **The Contractor must include the City of Canton, Ohio and the Ohio Department of Transportation as additional insured for purposes of coverage under the subject policy** The limits of such policy (or policies) shall not be less than the following:

WORKMEN'S COMPENSATION AND EMPLOYERS LIABILITY

As provided for in Ohio Law: Period Covered _____

COMPREHENSIVE LIABILITY:

		<u>AMOUNTS</u>		<u>PERIOD COVERED</u>	
	<u>BODILY INJURY</u>	<u>PROPERTY DAMAGE</u>	<u>FROM</u>	<u>TO</u>	
A. Automobile:					
Each Person	\$500,000.00	\$100,000.00	_____	_____	
Each Occurrence	\$1,000,000.00	\$100,000.00	_____	_____	
B. Comprehensive General, including completed operations, products & contractual:					
Each Person	\$500,000.00	\$100,000.00	_____	_____	
Each Occurrence	\$1,000,000.00	\$100,000.00	_____	_____	
C. Independent Contractors, Owners, & Contractors					
Protective Public Liability & Property Damage Liability Insurance:					
Each Person	\$500,000.00	\$100,000.00	_____	_____	
Each Occurrence	\$1,000,000.00	\$100,000.00	_____	_____	

NAME AND ADDRESS OF INSURANCE COMPANY

(Agency May Use Standard Certificate Forms Provided By The Insuring Companies)

PLEASE NOTE! "Do not use this form as Certificate. It is a guideline only."

INSTRUCTIONS TO BIDDERS

(1) Bidders are advised to examine, before submitting their bids, the location of the proposed work, as well as the specifications and form of contract. There may be changes in the specifications from those heretofore used; it is hereby understood that a bidder has read and fully understands each and every clause embodied in this contract. And no information derived from the Engineer's office will in any way relieve the Contractor from any risks or from fulfilling all of the terms of this contract.

(2) Bidders shall obtain copies of the specifications, blank proposal and the estimated quantities of the amount of work to be done at the Canton City Engineer's Office.

(3) Proposal must be made out upon the blank forms furnished as stated in Appendix E, sealed, and addressed to the Service Director of the City of Canton, Contract Office – 6th Floor, 218 Cleveland Avenue S.W., Canton, Ohio 44701-4218, Attn: Kim Harper and endorsed thereon "Proposal for the GP 1137, Waynesburg Drive SE Sanitary Sewer Rehabilitation (Revised)", and must be deposited with all papers bound thereto. The estimated construction cost for this project is \$124,292.00. Bidders must be **ODOT Pre-qualified** for bid to be accepted.

(4) Deleted.

(5) A proper and complete bid must be made for every item in the proposed contract, as shown by the Engineer's estimate, except where alternate bids are called on several items, but he must bid upon sufficient number of items to make a proper and complete bid on all the work. Any bid which is not a proper and complete bid or which contains bids on items not specified will be considered informal.

(6) Any bidder may withdraw the bid(s), by written request, at any time prior to the hour set for the bid opening. If there is no withdrawal of the bid(s), in accordance with the above procedure, the City reserves the right to enforce said bid price(s) and/or contract. Please note that by submitting your bid(s) to the City of Canton, the City assumes that said bid(s) has been reviewed by an authorized representative of your company to assure that the bid(s) is/are correct and/or accurate.

(7) No contract will be awarded to any bidder who is in arrears to the City of Canton upon debt or contract, or who is a defaulter as surety or otherwise upon any obligation to said City.

(8) Failure to have performed satisfactorily any contract previously awarded to the bidder by the City will be sufficient reason for rejection of his bid.

(9) Bidders are required to state in their proposals their names and places of residence, and the names and places of residence of all persons interested with them, and if no other person be so interested they shall distinctly state the fact.

(10) Deleted.

(11) In case of partnership the firm name and the name of each individual partner must be written; in the case of corporations, the corporation name must be signed by some one of its officers duly authorized to do so.

(12) Each bid must be accompanied by a surety bond satisfactory to the Service Director, or a certified check in the amount stated in the advertisement, made payable to the Service Director, City of Canton, Ohio as a guarantee that if the bid be accepted, a contract will be entered into and its performance properly secured.

(13) The successful bidder, to whom the contract may be awarded, shall be required to execute the contract, and furnish a bond satisfactory to the Service Director, within ten (10) days from the date of service of notice to that effect. In case of failure to do so, he will be considered as having abandoned it, and the deposit accompanying the proposal shall thereupon be forfeited to the City of Canton, and the work may be re-advertised or awarded to the next higher bidder, as the Service Director may determine. Such bond shall be of an approved guaranty company, satisfactory to the Service Director in the sum of the total price bid for the completed work.

(14) All proposals shall be publicly opened and read immediately after the time stated in the advertisement.

(15) The proposals will be compared on the basis of the Engineer's estimate of quantity of work to be done, and materials to be furnished. They are approximate only, and the City expressly reserves the right to increase or decrease them or to omit any item, during the construction of the improvement, that the Service Director may deem advisable.

(16) The bidder must submit, at the time specified, the various samples, statements, affidavits, plans, etc., required hereunder.

(17) Additional information is included in the copy of Legal Notice, Page 1.

(18) Instructions must be adhered to; failure strictly to observe them shall constitute a sufficient cause for the rejection of a bid.

(19) The Service Director reserves the right to reject any or all bids.

(20) Only ODOT prequalified contractors are eligible to submit bids for this project. Contractor must have ODOT Prequalification Certificate in place at the time of bid.

If a contract is awarded, the basis for awarding the contract shall be to the lowest bid by a competent and responsible bidder as determined by the Canton City Board of Control.

~~No bid will be considered unless the bidder shall furnish evidence, satisfactory to the Service Director, on the space provided, following this paragraph, that he has the necessary facilities, ability and pecuniary resources to fulfill the conditions of the contract and specifications. The~~

[illegible]

GENERAL SPECIFICATIONS

(The headings of the various sections are intended for convenience in reference and not to be considered a part of the specifications.)

(21) Definitions: The term "City" wherever used in these specifications shall mean the City of Canton, acting through its Service Director, or his properly authorized agents, such agents acting severally within the scope of the particular duties entrusted to them.

The term "Director" wherever used shall mean the Service Director of the City of Canton, duly appointed and holding office at the same time the contract was executed or during the fulfillment thereof.

The term "Engineer" whenever used, shall mean the City Engineer of said City or his properly authorized agents to the extent of the powers invested in them.

The term "Contractor" wherever used, shall mean the party of the second part entering into contract with the City for the performance of the work herein specified, or his properly authorized agents.

In all cases when the term "days" as used in these specifications shall be held to mean calendar days, unless otherwise noted.

The term "Work" wherever used, shall mean the furnishing of all labor, tools, machinery and the furnishing of all materials, except as herein otherwise specified, necessary to performing and completing of all the work herein specified. The methods and appliances used therefor must be such as will produce a satisfactory quality of work and ensure safety to the workmen, the public and to property.

Wherever, in the specifications, or upon the drawings and plans, the words directed, required, permitted, ordered, designated, prescribed, or words of like import are used, it shall be understood that the direction, requirement, permission, order, designation or prescription of the City is understood, and similarly, the words approved, acceptable, satisfactory to, refer to the City unless otherwise expressly so stated.

(22) Decisions: All the work under this contract shall be done to the satisfaction of the City, which in all cases shall determine the amount, quality, acceptability, and fitness of the several kinds of work and materials which are to be paid for hereunder, and shall decide all questions which may arise as to the fulfillment of this contract on the part of the Contractor, and the City's determination and decision thereon shall be final and conclusive; and the City's determination and decision in case of any question that may arise, shall be a condition precedent to the right of the Contractor to receive any money hereunder.

(23) Orders to the Contractor and Failure to Execute: The address given in the bid or proposal upon which this contract is founded is hereby designated as the place where all notices, letters and other communications to the Contractor shall be mailed or delivered. Such address may be changed at any time by a written notice from the Contractor and delivered to the City.

The Contractor must have on the work at all times, a foreman, superintendent or other competent representative, to whom orders and instructions may be given. Such orders and instructions shall have the same force and effect as if given directly to the Contractor.

Whenever instructions or orders which in the opinion of the Engineer require prompt or immediate attention, are neglected or ignored by the Contractor or his Superintendent, the Engineer shall have the power to place necessary men, machinery and materials on the work and charge the entire cost, including overhead expenses, to the Contractor, who shall either pay the entire cost and expenses into the City Treasury, or the amount thereof shall be deducted from money due the Contractor under the contract.

(24) Subletting or assigning contract: The Contractor shall give his personal attention to the faithful prosecution of the work, shall retain the same under his personal control and shall not assign by power of attorney or otherwise, nor sublet the work or any part thereof, without the previous written consent of the City, and shall not, either legally or equitably assign any of the money payable under this agreement, or his claim hereto except by and with the consent of the City.

Assigning or subletting of the whole or any portion of this contract shall not operate to release the Contractor or his bondsmen or surety hereunder from the contract obligations.

(25) Subsidiary Contracts: The Engineer may, when in his opinion, it becomes necessary, make alterations or modifications of the plans and specifications, or order additional materials and work, subject to the approval of the Director; and the Contractor shall be obliged to accept such alterations, modifications and additional work and materials not included in this contract. The price to be paid for the work under such altered or modified contract shall be agreed upon in writing, in a subsidiary contract for such portion of, or additional improvement and signed by the Director and Contractor, before such work is done; such additional work, alteration or modification shall be considered and treated as though originally contracted for and shall be subject to all the terms, conditions and provisions of the original contract, except that a material increase in the amount of work will be considered as a proper claim by the Contractor for an extension of the contract time for completion, by an amount to be determined by the City.

And it is expressly agreed and understood that such alterations, additions or modifications or omissions shall not, in any way, violate, or annul the original contract and the Contractor hereby agrees not to claim or bring suit for any damages, whether for loss of profits or otherwise, on account of such alterations, additions, modifications or omissions.

(26) Inspection: No material of any kind shall be used in the work until it has been inspected and accepted by the City. The Contractor must furnish all labor necessary in handling such material for

inspection. All materials rejected must be immediately removed from the vicinity of the work. Materials or workmanship found at any time to be defective shall be immediately remedied by the Contractor, regardless of previous inspection.

The Engineer, his assistants, inspectors and agents, together with other parties who may enter into contracts with the City for doing work within the territory covered by this contract, shall, for all purposes which may be required by their contracts, have access to the work and the premises used by the Contractor, and the Contractor shall provide safe and proper facilities therefor.

The Engineer, his assistants and agents shall at all times have immediate access to all places of manufacture where materials are being made for use under this contract, and shall have full facilities for inspecting the same.

No work shall be done except in the presence of the Engineer, his assistants, agents or inspectors. It shall be the duty of such agents or inspectors to see that all materials used and all work done shall be strictly in accordance with these specifications, but such agents and inspectors shall have no authority whatsoever to order any change in materials, manner of doing the work or quantity of work done.

The field inspection of the work, testing of materials, giving lines and grades, preparation of general and detail drawings, except as otherwise specified, will be done by the Engineer. The inspection and supervision by the Engineer is intended to aid the Contractor in supplying all materials and in doing all work in accordance with the drawings and specifications, but such inspection shall not operate to release him from any of his contract obligations.

(27) Time for doing work: The City is instructing the Contractor to base the project schedule upon a workweek starting on Monday at 8:00 am and concluding on Friday at 4:30 pm of each week, except to save life or property or in case of emergencies as authorized or directed by the City. The Engineer shall review alternative scheduling such as a four-day workweek and continuous operations prior to acceptance. The Engineer will base his acceptance upon necessity to facilitate operations. Contractor must make special provisions if contractor's operations start before 7:00 am, conclude after 4:00 pm each day, or anytime on Saturdays or Sundays and require city inspector presence. Contractor will be required to pay for inspection fees for overtime including inspector's base rate times 1.5 plus any applicable benefits. The Engineer shall determine method of payment when the need arises. (See also Section 60).

(28) Working Season: Work done under these specifications, such as grading of streets and placing foundation for paving, curb setting, brick or other roadway paving, sidewalk laying, shall cease from the first day of December until the first day of April of the following year, unless otherwise directed by the Engineer.

(29) Lines and grades: All work done under this contract shall be done in accordance with the lines, grades and instructions as given by the City and as directed in the plans.

(30) Order of procedure of work: The Contractor shall proceed with the work at such points as

the Engineer may direct, and not more than two adjoining blocks or squares in length, shall be torn up at the same time, unless otherwise directed by the Engineer; nor shall any block be closed to traffic, except where the Contractor is actually working.

Whenever, in the opinion of the City, it is necessary that certain portions of the work be done immediately, the Contractor upon written order from the Engineer, shall proceed with such work without delay. Should he fail to so proceed, the City may do, or cause to be done, such work, and the cost of the same will be deducted from any money due, or to become due the Contractor under this contract.

(31) Incompetent workmen: Any employee of or persons connected with the Contractor who shall use profane or abusive language to the inspector, or other employees of the City, or otherwise interfere with them in the performance of their duties, or who shall disobey or evade the instructions of such employees of the City, or who is careless or incompetent, or who is objectionable to the City authorities, shall be discharged at the request of the Engineer, and shall not again be employed, except with his consent. Skilled labor only shall be used in the cases where the same is required.

(32) Suspending the work: The City, on account of public necessity, adverse weather conditions, or for other reasons, may order any portion or all work suspended, and thereupon the Contractor shall neatly pile up all materials, provide and maintain board walks and crossings, and take other means to properly protect the public and the work and to facilitate traffic. In case of such suspension of work, the time allowed for the completion of the work shall be extended in an amount equal to that lost by the Contractor, but the Contractor shall be entitled to no additional claim for damages therefor.

(33) Forfeiture of contract: Should the work to be done under this contract be abandoned by the Contractor, or if this contract or any part thereof be assigned or the work sublet by him without the previous written consent of the City or if at any time any official of the City or employee thereof become directly or indirectly interested in this contract or in furnishing the supplies or performing the work hereunder, or in any portion thereof; or if at any time the City may be of the opinion that the performance of the contract is unnecessarily or unreasonably delayed, or that the Contractor is willfully violating any of the provisions of this contract; or if the work be not fully completed within the time named in the contract; then and in any such case the City may notify the Contractor in writing to discontinue all work or any part hereof as may be designated, and the City may thereupon, according to law, enter upon and take possession of the work or part thereof, complete, or cause the same to be completed, and charge the entire expense of so completing the work or part thereof to the Contractor; and for such completion, the City itself or for its Contractors, may take possession of and use or cause to be used any materials, machinery, or tools of every description provided by the Contractor for the purpose of this work, and may procure or cause to be procured other materials, machinery, or tools required for the completion of the work.

All cost and expenses, including those of re-letting, (and damages resulting from the non-completion of the work within the specified time) incurred under these clauses, or by virtue of this contract, shall be deducted and paid by the City out of any monies then due or to become due the Contractor under and by virtue of this contract or any part thereof. In case such cost and expenses shall exceed the amount which would have been payable under this contract if the same had been

completed by the Contractor, the Contractor or his sureties shall pay the amount of such excess to the City; and should such expense be less than the amount payable under this contract had the same been completed by the Contractor, he shall receive the difference, after deducting the amount retained as hereinafter specified, but shall not be entitled to damages for not being allowed to complete the work himself.

In case of abandonment of the work by the contractor, or its termination by the City, the Director of Public Service shall at once cause the work already done under this contract to be measured. Five percent (5%) of the value of the amount thus shown will be set aside as a retainer under the provisions hereof. In such case no money, due or payable to the Contractor under this contract after the annulling of the same, shall be paid until the work is completed, accepted, and all claims and suits by reason of said work have been finally settled. The retained five percent (5%) shall be held for the full guaranty period, as specified herein and used as provided in other provisions hereof, for keeping in repair so much of the work as was done or completed under this contract.

(34) Storing materials delivered on work: All materials required in the work may be placed on the sides of the roadway, or parking area, or upon a portion of the sidewalk along the sides of the roadway to be improved and upon adjoining portions of intersecting streets, as directed by the Engineer; but all such materials shall be neatly and compactly piled in such a manner as to cause the least inconvenience to the property owners and the general public. All fire hydrants must at all times be kept free and unobstructed; water and gas shut off boxes must be left uncovered by such materials; and passageways must be left for store entrances, private driveways and street intersections.

No materials, tools or machinery shall be piled or placed against shade trees unless they be amply protected against injury therefrom, and all shade trees and other improvements must be protected from injury caused by the storing of materials or otherwise during the prosecution of the work.

All materials, tools, machinery, etc. stored upon public thoroughfares must be provided with red lights at night time, and danger signals by day, to warn the traffic of such obstructions.

(35) Storage of materials, tools and machinery during suspension of work: Upon the suspension, stoppage, or abandonment of the work, or any part thereof, all materials shall be neatly and compactly piled, and all tools and machinery so located as not to impede public traffic on roadways, sidewalks and crosswalks unnecessarily. All such stored materials, tools and machinery shall be provided with danger signals by day and red lights by night.

(36) Ownership of old materials: All old curbing, stone walk, paving brick, brick crosswalks, gutter paving bricks, gutter plates and culverts, sewer pipe, iron pipe and castings, are the property of the City and all such materials as are not ordered replaced, shall be removed by and at the expense of the Contractor, to such places as the Engineer may direct. If the Engineer chooses to not accept such materials, the Contractor must dispose of them at no cost to the City.

(37) Plans, profiles, and specifications: The plans, profiles and specifications are intended to be explanatory and supplementary of each other, but should any discrepancy appear or

misunderstanding arise as to the import of anything contained in either, the explanation of the City shall be final and binding on the Contractor. Any correction of errors or omissions in the plans, profiles and specifications may be made when such corrections are necessary for the proper fulfillment of their intentions as construed by the City.

Any correction in the plans, drawings, and specifications made pursuant to the provisions of this paragraph shall not be retroactive, but shall take effect at the date of notification to the Contractor of such correction.

The City will furnish the Contractor with up to three (3) sets of additional copies of the plans (full size or half size, if available) as may be required, for the construction of the work herein specified.

(38) Private rights of way: Whenever it is required as a part of this contract to perform work within the limits of private property or private right of way, such work shall be done in conformity with the agreements between the City and such owners, and whether or not such a condition be a part of this agreement, care shall be taken to avoid injury to the premises entered, which premises must be left in a neat and orderly condition by the removal of rubbish and surplus materials and restoring vegetation to meet or exceed pre-contract condition.

(39) Injunctions: If legal obstructions to the prosecution of the work arise, the delay shall operate to extend the time allowed for the completion of the part or parts of the work obstructed, for the length of time obstruction continues and no longer, but no damages shall be claimed or allowed the Contractor for any such delay.

(40) Attested accounts: In case any person who has performed labor or has furnished materials, tools, or machinery for the work herein specified, he may file sworn itemized statement of the amount of value therein, as required by law, and if such claims be not disputed by the Contractor, or if the same are disputed, after the amount and validity have been determined by law, the City may pay the amount of such claims out of any money due the Contractor under this contract.

(41) Claims for extra materials and work: All claims for furnishing extra materials, or for doing extra work, for which the Contractor may consider himself entitled to receive extra compensation, must be presented to the Director of Public Service in writing, at the time the cause for such claim arises. Such statement must contain an itemized account of such materials and labor required, and unless such claim is so presented, it is expressly agreed, by the parties to this contract, that the Contractor has waived such claim, and that he shall not be entitled, subsequently to claim, or receive any pay for the same. No claim for extra labor and material shall be allowed, unless the necessity therefor has first been determined by the Director and the price to be paid therefor has been agreed upon, in writing, before such additional materials have been used, and such additional labor performed.

(42) Claims for damage for omission or delays: If any change or alteration involves the omission of any materials or work called for in the original plans and specifications, any claim for loss of profits, or any other cause growing out of any such omissions is hereby expressly waived by the Contractor.

No claims for prospective profits will be allowed, by reason of the inability of the City to proceed with all, or any part of the work provided for in this contract; nor for damages by reason of any delay on the part of the City, but any such delay shall entitle the Contractor to a corresponding extension of time for the completion of the work.

(43) Damages to property: All damages to lawns, fences, trees, buildings, sidewalks, water, sewer or gas pipes, or other public or private property along or near the line of work, or the vicinity thereof, if the same are occasioned through neglect or failure on the part of the Contractor, or that of any person in his employ, to take all necessary precautions to prevent the same, must be replaced or made good by him, to the satisfaction of the owners of same and at his cost and expense whenever the Engineer may so direct.

(44) Liability of contractor for injuries, patents, etc.: It is expressly understood and is hereby agreed that the whole of the work to be done is at the Contractor's risk and that he assumes by bidding under these specifications, the full responsibility and risk of all damages to the work itself, the property along the line of the work, injury to persons or animals which may be occasioned by floods, stoppage of water in sewers or gutters, caving in of surface of grounds or trenches, neglect in properly protecting work by barricades, etc., or any manner whatsoever. He shall bear all losses resulting to him on account of character of the work, or because the nature of the ground in or on which the work is done, is different from what was estimated or expected, or as may have been indicated by borings or test pits, or on account of the weather, actions of the elements or other causes.

He shall assume the defense of any indemnity and save harmless the City and its individual officers and agents from all claims relating to labor and materials furnished for the work to inventions, patents and patent rights used in doing the work, to injuries to any person or corporation received or sustained by or from the Contractor and his agents and employees in doing the work, or in consequence of any improper materials, methods, implements or labor used therein, or by reason of any condition in the improvement created by the Contractor or for any other liability therefor.

The Contractor, if required at any time by the Director, shall furnish the City satisfactory evidence that all persons who have claims for labor performed or material furnished hereunder, or have suffered damages on account of his operations, have been fully paid or secured. And in case evidence be not furnished as aforesaid and such amounts as the Director may consider necessary to meet lawful claims of persons aforesaid, shall be retained from the monies otherwise due the Contractor hereunder, until the liabilities shall have been fully satisfied.

If the Contractor shall claim compensation for any damages sustained by reason of the acts of the City, he shall within five (5) days after the sustaining of such damages, present a written statement to the City of the nature of the damage sustained. On or before the fifteenth day of the month succeeding that in which any such damage shall have been sustained, he shall file with the City an itemized statement of the details and amount of such damage, and unless such statement shall have been filed as thus required, his claim for compensation shall be forfeited and invalidated, and he

shall not be entitled to any payment on account of such damage.

The statement of any specific duty or liability of the Contractor in any part of the specifications shall not be construed as a limitation or restriction upon any general liability or duty imposed upon the Contractor by these specifications, said reference to any specific duty or liability being merely for the purpose of explanation.

(45) Safety measures – barricades: The Contractor must provide and maintain barricades to properly protect persons, animals, vehicles and property against injury. He shall also provide, place and maintain sign boards, letter “STREET CLOSED” in plain legible type, upon the streets and alleys in which the work is in progress and upon each street and alley intersection therewith at a distance of one block therefrom, as may be directed by the Engineer.

(46) Traffic regulations: The Contractor is responsible for all traffic control on the project whether or not it is called out in the detailed specifications or plans. All traffic control must comply with appropriate City, State, and Federal rules, regulation, and guidelines. During the progress of the work, the Contractor shall accommodate both the vehicular and foot traffic and shall maintain free access to fire hydrants, water and gas valves. Gutters and water ways must be kept open and other provisions made for the removal of storm water.

During the construction of the sewer work and other ditches, only one-half of the street intersections may be blocked at one time and the Contractor shall provide and maintain temporary driveways, bridges, and crosswalks over sewer and other trenches, such as, in the opinion of the Engineer in charge of the work, are necessary to reasonably accommodate the public.

To accommodate pedestrians during the progress of the work, the Contractor shall provide and maintain crosswalks on that portion of the street being improved, both across the main roadway and at the street and alley intersections. The crosswalks shall be constructed of planks two (2) inches thick, and within the fire limits of the City, they shall be at least five (5) feet wide, and outside the fire limits at least three (3) feet wide.

When the City deems it advisable or necessary to divert traffic from the work or any portion thereof, the Contractor shall provide and maintain detour signs, letter “DETOUR” in plain and legible type, and indicating the direction to be taken by traffic as directed by the Engineer.

In the event of the Contractor’s failure to comply with the above provisions relative to traffic regulations, the City may cause said provisions to be carried out and the cost and expense of such work shall be deducted from any money due the Contractor under this contract, but the performance of any such work by the City, or at its insistence or request, shall in no way release the Contractor from his general or particular liability for the failure to provide for the safety of the public or the work under this contract.

The Contractor shall not place any material on any sidewalk so as to interfere with the free access to any crosswalk by pedestrians.

No additional compensation will be paid the Contractor by the provision and maintenance of bridges, crosswalks, etc., as above specified, but the cost and expense of maintaining the same shall be considered as part of the general contract and shall be included by the Contractor in the prices bid by him upon the several items as named upon the proposal therefor.

(47) Hauling materials on paved streets: During the progress of the work and in the cleaning up thereof, the Contractor shall provide and use vehicles in which the excavated or other materials are hauled over paved streets in the City, with tight bodies for transportation of fine materials and shall not overload the same so as to allow such materials to fall off the tops thereof upon the streets. The paved streets over which such material is hauled must be kept free from dirt and other materials in accordance with the provisions of City Ordinance regulating same.

(48) Cleaning up during the progress and completion of work: During the progress of the work the Contractor shall remove all surplus excavated materials, obstructions, old materials not used, trees, stumps, filth or rubbish of any kind that may be encountered in the execution of the work, at his own cost and expense except when the removal and transplanting of trees be specified and bids therefor are required upon the blank proposal attached thereto.

As fast as any portion of the work, such as the construction of sewers or drains not located in the street or streets to be improved under the contract is completed, the backfilling of trenches and the repaving over the same shall be done as soon as possible, as herein specified.

As fast as the roadway pavement is completed, the Contractor shall remove all rubbish and surplus materials which have accumulated during the progress of the work provided herein, from the new or existing sewers, the roadway, sidewalk space and intersecting streets and shall render the streets suitable, safe and convenient for traffic.

Upon the completion of the improvement and before the final acceptance thereof, the Contractor shall remove all machinery, tools, temporary building and shall clean the pavement, curb and sidewalks in such a thorough and effective manner by hand sweeping, scraping or by flushing, according to kind of pavement or condition of the street, as will be determined by the Engineer, so as to leave the entire surface of the pavement, curbs and sidewalks so exposed that the quality and texture of the materials used and workmanship may be readily determined. He shall also remove all centering, scaffolding and accumulations of sand, earth, materials, and rubbish of all kinds from the sewers, manholes, inlets, and catch basins. If the improvement is completed too late in the fall to permit all of the cleaning up as herein specified, that portion not completed shall be done the following spring within ten (10) days after written notice to do so from the Engineer.

All such cleaning and removal of cleanings shall be done by the Contractor and the cost and expense thereof shall be included in his price for furnishing of materials and laying of pavement.

In case the Contractor shall fail or neglect to do any cleaning within forty-eight (48) hours after the receipt of notice to do so, or in the manner specified, the Director of Public Service may and is hereby authorized to cause the same to be done and charge the cost and expense thereof to said Contractor and deduct the amount of such cost and expense from any estimate due him at any time

thereafter.

(49) Existing surface fixtures and structures: At least forty-eight (48) hours before breaking ground, the Contractor shall notify all the City Departments and public service corporations, whose tracks, wires, pipes, conduit or other structures may be affected by his operations. He shall likewise notify the Chief of the Fire Department of the temporary blocking of any street.

Existing surface structures which may be encountered in the work shall be removed and replaced or maintained by the Contractor at his cost and expense, or by the parties interested, and in such a manner as to secure the safety of the public and structure. The use of pipes, conduits, etc. shall not be interrupted without the consent of the parties owning or controlling the same.

(50) Existing sub-surface fixtures and structures: Existing sub-surface structures encountered in the work shall be protected and maintained in complete operation, unless permission is given for their removal. Existing substructures, including old sewers, abandoned sewers, abandoned drains, etc., which may appear within the limits of the excavating, shall be removed, if required by the City, but such removal will not be paid for separately, except when expressly specified, being paid for in the price for excavation or other items including excavation.

In case the uncovering of sub-surface structures necessitates a change in the alignment of grade of the proposed work, the Contractor shall give immediate notice of such obstruction to the Engineer, and shall cease work at such points until ordered to proceed.

And in case any change of grade or alignment shall delay the work, the time allowed for the completion of the contract will be extended to the extent which the delay shall have operated, the decision of the Engineer upon this point being final.

(51) City may construct sewers, drains, etc.: The City reserves the right to suspend or stop the work on all or any part of the progressing improvement, for the purpose of laying, relaying or allowing to be laid, or re-laid, any sewers, drains, gas pipes, water pipes, conduits or appurtenances thereto, which, in the opinion of the Director of Public Service are necessary or expedient, or for any other reason, and at any stage of the work, and the Contractor shall not interfere with or place any impediment in the way of any person or persons engaged in such work; and in such cases the Contractor shall not be entitled to any damages or recompense, either for digging up the street, or delay or hindrance, but the time of completion shall be extended as many days as the delay shall have operated.

It is the intention of the City to require all property owners to have water and sewer connections made to all lots, and to cause to be laid all water mains, gas mains, sewers and sewer connections, and other pipes, conduits, etc., not included in the contract hereunder, in advance of the improvement, except when in the opinion of the Director of Public Service such procedure be impracticable and the Contractor shall not be entitled to damages or recompense by reason of delay or hindrance, but he shall be granted an extension of time equal to that in which the delay shall have operated, as determined by the Director of Public Service.

If the Contractor hereunder finds that the trenches are not properly backfilled, he shall so notify the Engineer in writing, allowing ample time to have the defects remedied before proceeding with the improvement.

The Contractor may exercise the right to such supervision of the work, as he may deem necessary to insure good material and workmanship, in order that he may properly protect himself from defects in the finished pavement for which he will be responsible under his guaranty. The Contractor will be allowed and paid for any additional materials, the use of which is made necessary on his part by reason of the above specified work, such reasonable sum (not to exceed contract price) as may be agreed upon in writing between himself and the Director before such additional materials be used, and in the manner specified for subsidiary contracts.

(52) Special repairs: The City reserves the right, whenever in its judgment, to take up or permit the taking up of any part of the improvement during the progress of the work, or subsequent to the completion thereof and during the period of guaranty for the purpose of constructing, repairing, or renewal of any sewers, drains, water or gas pipes, or other improvements. Whenever any part of the improvement is taken up as herein specified, all the work of restoring the same will be done by or under the direction of the City and the Contractor hereunder will be relieved of any maintenance requirements on that portion of the completed improvement so disturbed.

(53) Use of city water supply: The City will furnish water at the hydrants for the purpose of puddling trenches, construction purposes, operation of machinery, mixing concrete, mortar, etc., but the cost of water and the proper facilities for conveying the same from the hydrants must be included by the Contractor in the unit prices bid for the various items of work wherein water will be used. All water used must pass through meters installed by the Water Department at its hydrants and subject to its regulation and paid for at the builder's rate per one thousand (1,000) cubic feet of water consumed, as established by said Department, plus the cost of meters and installation of same. A deposit will be required covering the cost of meter and installation thereof, which deposit of cost of meter will be refunded on return of meter in good condition.

The Contractor must notify the Water Department at least forty-eight (48) hours in advance of the time such installation is required.

(54) Use of sewer: At any time during the progress of the work the City may, by written notice to the Contractor, take over and utilize the whole or part of any sewer, drain or appurtenance thereof which has been completed, giving if desired, permits to tap and connect therewith. In such event, the Contractor shall be relieved from the maintenance of such part as may be used except as provided under the section "Guaranty" and such will be deemed as final acceptance by the City of the part or parts used, subject to the responsibility of the Contractor for all defects in workmanship, etc., as provided under the "Guaranty" section of these specifications.

(55) Sanitary regulations: Necessary sanitary conveniences for the use of the laborers on the work, properly secluded from public observation, shall be constructed and maintained in a sanitary condition by the Contractor in such manner and at such points as shall be approved, and their use shall be strictly enforced.

(56) **OSHA standards:** It is the City's requirement, under OSHA Regulations, that all outside contractors hired by the City of Canton are and will be in full compliance with all OSHA standards and perform said work in accordance with all applicable OSHA standards.

(57) **Laws and ordinances:** The Contractor shall keep himself fully informed of all laws, municipal ordinances and regulations that in any manner affect the persons engaged in or employed upon the work, or the materials used in the work, or any way affecting the conduct of the work, and of the decrees of the bodies or tribunals having jurisdiction or authority over the same. He shall also himself observe and comply with and shall cause all of his agents and employees to observe and comply with all such existing and subsequent laws and ordinances, regulations, orders and decrees, and to protect and indemnify the City against claim or liability arising from or based upon the violation of such laws, ordinances, regulations, orders or decrees by himself or by his agents or employees.

References to special laws and ordinances in other sections of this contract shall in no way relieve the Contractor from compliance with all the provisions of this section.

(58) **Monuments and landmarks:** The Contractor shall preserve intact all City monuments, benchmarks and landmarks, as shown upon the plans or encountered in the excavation. In such case that such monument, benchmark or landmark not shown on the drawings be encountered in opening the excavation, the Contractor shall stop work at such point, immediately notify the Engineer of such findings and not disturb same until directed to do so by the Engineer.

(59) **Prices:** The City shall pay and the Contractor shall receive the prices hereafter stipulated as full compensation for everything furnished and done by the Contractor under this contract including all incidental work required but not specifically mentioned, and also for all loss or damage arising out of the nature of the work, or from the action of the weather, floods, or from unforeseen obstruction or difficulty encountered in the prosecution of the work, and for the expenses incurred by or in consequence of the suspension or discontinuance of the work as herein specified, and for well and faithfully completing the work and the whole thereof, as herein provided, together with the remedying of all defects developing during the prosecution of the work and during the period for which the work is guaranteed.

(60) **Starting and completing the work:** The Contractor shall start the work embraced in this contract within 15 days after and not before the date of a written notification from the Engineer, and shall commence at such points as the City may direct.

If the work done under this contract conflicts with other work done for or by the City, or with its consent, the City shall determine the time and manner of procedure of the operations carried on under this contract.

The number of calendar days allowed for the completion of the work embraced in this contract shall be **150 calendar days. All work within the ODOT Right-of-Way shall be completed by August 31, 2011.**

Work is to be suspended from December 1st to April 1st . The Contractor may request in writing to perform certain operations during this period. If given permission to work, Contractor will be responsible for either maintaining a suitable pavement surface, ie., asphalt, concrete or low-strength mortar, or assuming snow removal for all areas affected. Contract specified calendar days for time of completion will not be accrued during this shutdown period. Conversely, additional payments or compensation will not be made to contractor for re-mobilization, equipment overhead, etc. resulting from weather-related work suspension.

The permitting of the Contractor to complete the work or any part thereof, after the time fixed for its completion, shall in no way operate as a waiver on the part of the City of any of its rights under this contract.

(61) Defaulted provisions for delay: The Contractor guarantees that he can and will complete the work on or before the time affixed in his bid, or on or before the extended time as provided for in the contract. The payment to the City for such delay and failure on the part of the Contractor shall be defaulted in the amount of Seven-Hundred-Fifty Dollars (\$750.00) for each day by which the Contractor shall fail to complete the work, or any part thereof, in accordance with the provisions of the contract. The City will deduct and retain, from any money due or any money to become due under the contract, the amount of the liquidated damages. The Contractor shall be liable for the payment of the difference upon demand of the City.

(62) Samples: Each bidder shall submit samples of materials, or refer to samples of materials furnished by the Manufacturer or Producer, at the time of submitting the bid, as required in detail specifications under each item, for which bids are received. Whenever samples of any material or workmanship have been filed by the Contractor, or are on file as specimen of the work to be done or materials to be furnished for the work herein specified, such samples shall be the standard by which that kind and class of work shall be judged.

(63) Measurements: No extra or customary measurements of any kind, unless specially noted, will be allowed in measuring the work under these specifications; but the length, area, solid contents or number only, shall be considered as a basis for payment as hereinafter specified.

The measurements as made by the City of the amount of the work done shall be final and conclusive.

Payments will be made upon the work done within the lines prescribed by the plans, drawings or specifications, and in accordance with the unit prices for the items under which the work is done, and nothing therein contained shall be so construed as to deprive the City of any remedy or defense it may have under the same, for violation of the terms or conditions of this agreement.

(64) Partial payments: The Contractor shall, on a day of each calendar month as is mutually agreeable to the Contractor and the City, make an approximate estimate of the quantities and prices of the labor furnished and the materials incorporated into the project during the previous calendar month and forward such estimate to the Engineer for approval. More frequent estimate submission,

at the option of the City, may be made at any time during the progress of the project.

Partial payments to the Contractor for work performed for a lump sum price shall be based on a well-balanced schedule prepared by the Contractor and approved by the Engineer which schedule shall apportion the lump sum price to the principal features entering into or forming a part of the work covered thereby.

Partial payments to the Contractor for labor performed and materials furnished shall be made at the rate of ninety-two (92) percent of the estimate submitted by the Contractor and approved by the Engineer until the project is fifty (50) percent completed and at the rate of one hundred (100) percent of such estimates after the project is fifty (50) percent completed. No payment will be made for materials stored on site.

The City shall pay the Contractor monthly, not less than the difference between the amount of each monthly estimate which has been approved by the Engineer and the sum of Retainage stipulated below and any other amounts which the City is authorized by the contract to withhold. The making of any monthly payment shall not be taken or construed as approval or acceptance by the City of any work included in the estimate upon which such payment is based.

If the City fails to make payment within sixty (60) days after approval by the Engineer, in addition to other remedies available to the Contractor, there shall be added to each such payment interest at the average of the prime rate established at the commercial banks in the city of over one hundred thousand population nearest the construction project, commencing on the first day after said payment is due and continuing until the payment is received by the Contractor.

To aid in determining quantities of materials to be paid for hereunder, the Contractor shall, whenever requested by the Engineer, provide scales, equipment and assistance for weighing or for measuring such materials.

For estimating quantities in which computation of areas by geometric methods would be comparatively laborious, the City agrees that a planimeter or other agreed upon method may be used.

(65) (66) Pre-final and final estimates and payments: As soon as practicable after the completion of work under the contract, the Engineer will make an inspection of the project. If the project appears to be acceptable, the Engineer will recommend tentative acceptance thereof and make a pre-final estimate of the amount of the work done by the Contractor based on quantities and prices submitted by the Contractor. Upon such pre-final estimate being certified, the City will pay the Contractor all of the monies owing him under the contract, except the retainage, which will be kept for sixty (60) days after the date of the pre-final estimate.

Upon the expiration of such sixty (60)-day period, provided that it appears upon further inspection and certification by the Engineer that the contract has been faithfully performed, the City will pay to the Contractor the whole sum retained or such part thereof as remains after deducting expenses of correcting any deficiencies in the work as determined by the Engineer. Such final inspection and payment will not discharge the liability of the Contractor under the contract or of the surety under the contract bond, but such liabilities and all guarantees shall remain in effect for the period fixed by law.

(67) **Additional contract:** It must be distinctly understood that should more than one contract be awarded to the same Contractor, he may be required to prosecute the work upon all of them at one and the same time, at the option of the Director, and he shall not be permitted to transfer men, tools, or machinery from one job to another without the consent of the Director; but shall at all times have a competent foreman and a sufficient number of men, tools, and machinery upon each job, at the same time, as well, in the opinion of the Director, be sufficient for the proper prosecution of the work.

(68) **Insurance:** The Contractor shall at all times during the progress of the work, comply with all the provisions of the laws of Ohio relating to workmen's compensation and State insurance fund for the benefit of injured and the dependents of killed employees, and shall at all times during the progress of the work carry accident liability insurance in an amount sufficient to reasonably indemnify himself against loss from claims for personal injuries or fatal accidents occurring upon the work or caused thereby including injuries and accidents to employees of the Contractor, persons engaged on the work under another contractor, employees of any sub-contractor or other engaged on or about the work and the public. The City reserves the right to annul this contract at any time upon receiving evidence of the Contractor's failure to comply with the statutes as described above.

(69) **Last payment to terminate liability of City:** No person or corporation, other than the signer of this contract as Contractor, has now any interest hereunder, and no claim shall be made or be valid, and neither the City nor its agents shall be liable for, or be held to pay any money, except that provided in this contract. The acceptance by the Contractor of the last payment made as aforesaid shall operate as and shall be a release to the City and agents thereof, from all claims and liability to the Contractor for anything done or furnished for, or relating to the work, or for any act or neglect of the City or of any person relating to or affecting the work, except the claim against the City for the remainder, if there be any, of the amount kept or retained.

(70) **Guaranty:** The Contractor, for and in consideration of the monies received and to be received by him, hereby agrees that the repairs of all defects in the work done and completed under this contract arising, in the opinion of the Director, out of the use of defective materials, settlements of sewers, structures, and foundations or improper workmanship in the construction thereof, and which repairs from such causes may become necessary during the period of years, as set forth below, after the date of the approval by the Director of the Engineer's certificate of the "FINAL COST", shall be made by him without cost and expense to the City, and the Contractor agrees to make such repairs when, and as ordered by the Director, by written notice served upon him and if after having received such notice, the Contractor fails to make such repairs within the number of days stated in such notice, from the date of receipt thereof, the Director shall thereupon have the power to cause said repairs to be made and charge the cost and expense thereof to the Contractor or his surety.

The failure of the Director to give notice within the specified period shall not preclude the operation of this section.

The guaranty periods referred to above in this section shall be as follows:

C.I.P.P. Rehabilitated Sewers, 2 years (for more information, see Detailed Specifications: Section 02957A & 02957B, Post Installation)

Concrete curbing, 1 year

Concrete sidewalks, 1 year

Concrete masonry, 1 year

Brick masonry, 1 year

Sewers, manholes, catch basins, 1 year

Asphaltic concrete pavement, 1 year

Concrete foundation, 1 year

(71) **No estoppel:** The City shall not be precluded or estopped by any return or certificate made or given it, from showing at any time, either before or after the final completion and acceptance of the work and payment therefor pursuant to any such return or certificate, the true and correct amount and character of the work done and materials furnished by the Contractor or any other person under this agreement, or from showing at any time that any such return or certificate is untrue and incorrect or improperly made in any particular, or that the work and materials, or any part thereof, do not in fact conform to the specifications; and the City shall not be precluded or estopped, notwithstanding any such return or certificate and payment in accordance therewith, from demanding and recovering from the Contractor such damages as it may sustain by reason of his failure to comply with the specifications.

Neither the acceptance by the City, nor any order, measurement, or certificate, by the City, nor any order for payment of money, nor any payment for, nor acceptance of the whole or any part of the work by the City, nor any extension of time, nor any possession taken by the City, or its employees, shall operate as a waiver of any portion of this contract or of any power herein reversed to the City, or any rights to damages herein provided; nor shall any waiver of any breach of this contract be held to be a waiver of any other or subsequent breach.

(72) **Detailed Specifications:** See Following Specifications:

Section 02957A – Sewer Lining (Water and Steam Cured-in-Place Pipe)

Section 02957B – Sewer Lining (UV Cured-in-Place Pipe)

The Contractor shall bid either option of sewer lining based on the respective specification. Only one line item is included in the bid form for this work. The detailed specifications for sewer lining noted above shall be considered equals.

SECTION 02957A

SEWER LINING (WATER AND STEAM CURED-IN-PLACE PIPE)

PART 1 GENERAL

- 1.01 It is the intent of this specification to provide for the reconstruction of pipelines and conduits by the installation of a resin-impregnated flexible tube, which is continuous and tightly formed to the original conduit. This specification is for felt-based Cured-In-Place Pipe (C.I.P.P.) products that are cured with either hot water under hydrostatic pressure or steam pressure within the tube.
- 1.02 General Description
- A. The method of rehabilitation shall be C.I.P.P. as described herein for the line (or lines) listed in this bid document. This method includes cleaning and video-inspection of the designated line, identification of existing live taps, removing of protruding taps by remote methods, performing point repairs, installation of a resin-impregnated tube into the existing pipe, followed by cured-in-place pipe installation as specified by the resin manufacturer, reopening service taps into the line, sampling and testing, and clean-up. Before final acceptance of each line segment, a post-rehabilitation video inspection sample testing must be conducted and approved. Rehabilitation must be completed for the full length from manhole to manhole, resulting in a sound, tight-fitting water-tight liner with a smooth interior surface.
 - B. The Contractor, or the sub-contractor, shall not change any material, design values or procedural matters stated or approved herein, without informing the Owner and receiving written approval of the change. Such changes shall result in rejection and removal of work completed with the unapproved materials or processes at no cost to the Owner.
 - C. Removal and replacement of fences and repair of damaged yards, lawns, sidewalks, driveways, and other public or private property, due to actions or processes related to the work being performed shall be included in the cost of the project.
 - D. Traffic control, confined space entry, and work site protection shall be the responsibility of the Contractor and costs of these items are incidental to the project unless otherwise stated. The Contractor shall notify Police, Fire and Ambulance agencies, the Ohio Department of Transportation (Stark County office) and the City of Canton Traffic Engineering Department in advance of any and all road closures and detours. The Contractor shall fulfill all Ohio Department of Transportation requirements, including (but not limited to), all items identified on the plans. The Contractor shall comply with applicable OSHA trench safety rules and confined space entry procedures.
 - E. All water obtained from a City fire hydrant shall be metered and paid for by the Contractor. An air gap shall be provided between pipes/hoses connected to a fire hydrant and a storage tank/equipment used by the Contractor. The cost of said water shall be included in the cost of the project. Hydrant connections are made available through the Water Department. The cost of the connection, if any, shall be paid by the Contractor.

1.03 Experience Record of Contractors

A. Products and Installers must meet all of the following criteria to be deemed acceptable:

1. For a Product to be considered acceptable, a minimum of five successful wastewater collection system projects of a similar size and scope of work shall be performed in the U.S. and documented to the satisfaction of the Owner to assure viability.
2. For an Installer to be considered as acceptable, the Installer must satisfy all insurance, financial, and bonding requirements of the Owner, and must have had at least 5 (five) years active experience in cured-in-place product installation. In addition, the Installer must have successfully installed at least 1,000,000 feet of a cured-in-place product in wastewater collection systems. Acceptable documentation of these minimum installations must be submitted to the Owner. Installer's project managers must have a minimum of 2 years of C.I.P.P. installation experience and must be on-site during the installation of the C.I.P.P. products.
3. Sewer rehabilitation products submitted for approval must provide third party test results supporting the structural performance (short-term and long-term) of the product and such data shall be satisfactory to the Owner. No product will be approved without independent third party testing verification.
4. Both the rehabilitation manufacturing and installation processes shall operate under a quality management system which is third-party certified to ISO 9000 or other recognized organization standards. Proof of certification shall be required for approval.
5. The owner authorizes the use of proven materials that serve to enhance the pipe performance specified herein. Proven materials have passed independent laboratory testing, not excluding long-term (10,000 hour) structural behavior testing, and have been successfully installed to repair failing host pipes in the U. S. for at least 4 years. In addition to the aforementioned, the owner may require that the contractor demonstrate that the enhancements proposed exceed the specifications herein, prior to the installation of the enhanced material systems. This section in no way shall be interpreted as authorization to deviate from the minimum standard practices set forth herein.

B. Documentation for products and installers must be submitted upon request by the Owner. All required submittals must be satisfactory to the Owner.

1.04 Reference Standards

- A. ASTM D638 – Test Method for Tensile Properties of Plastics.
- B. ASTM D790 – Test Method(s) for Flexural Properties of Un-Reinforced and Reinforced Plastics and Electrical Insulating Materials.
- C. ASTM D2990 – Tensile, Compressive, and Flexural Creep and Creep-Rupture of Plastics.

- D. ASTM D5813 – Cured-in-Place Thermosetting Resin Sewer Pipe.
- E. ASTM F1216 (including Appendix XI) – Standard practice for Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube.
- F. ASTM F1743-96 – Rehabilitation of Existing Pipelines and Conduits by Pulled-in-Place Installation of Cured-in-place Thermo-Setting Resin Pipe (C.I.P.P.).

All ASTM Standards noted above shall be the current active standard (latest release) unless otherwise noted. In case of conflicting requirements between this specification and these referenced standards, this specification will govern.

1.05 Housekeeping

- A. Containment of sewage and site cleanliness is the responsibility of the Contractor. Fines levied by State and Federal agencies in the event of a spill or unapproved discharge shall be paid by the Contractor. Spill cleanup as well as site cleanup shall be conducted by and paid for by the Contractor. All cleanup and costs are part of acceptance of the project, without which final payment will not be made. Bypass pumping will be required while the sewer lining is being performed. See Plan Sheet 9 of 10 for specific requirements.

1.06 Bid Information

- A. This project is bid on a “price per lineal foot” basis. The distance stated on the Proposal is the Owner’s best estimate and shall be checked by the Contractor. The Owner will verify Contractor’s measurements and payment will be based on the Bid cost per lineal foot based on the Owner verified distance.
- B. Contractor shall list the following information on the Proposal in spaces provided:
 - 1. Thickness of each segment of pipe lined.
 - 2. Cost per foot with extended total.
- C. The Contractor shall attach the following to the Proposal:
 - 1. Type of resin to be used.
 - 2. Attach 3rd party test results for chemical corrosion resistance testing (Section 2.02.B). Attach statement that resin is approved to be used in the proposed C.I.P.P. system (Section 2.02.B).
 - 3. Initial (laminate design) modulus of elasticity used on this project (250,000 psi minimum).
 - 4. Long-Term Reduction Factor.
 - 5. ASTM F1216 wall thickness calculations for each segment of pipe lined.

NOTICE: FAILURE TO DO SO MAY RENDER THE BID NON-RESPONSIVE AND THE BID MAY NOT BE CONSIDERED.

1.07 Measurement and Payment

- A. The unit price stipulated under this Section shall be based on a per lineal foot basis of sewer lining and shall include all labor and material costs associated with reconstructing the sewer by the C.I.P.P. process; including, but not limited to, the pre-installation, the sewer lining, the post-installation, and field testing as described in this Section.

PART 2 PRODUCTS

2.01 Manufacturers

- A. Insituform Technologies
- B. In-Liner Technologies, LLC
- C. Approved equal

2.02 Resins

- A. Acceptable Resin Types
 - 1. Polyester
 - 2. Vinylester
- B. The resin system shall be a corrosion resistant system including all required catalysts, initiators that when cured within the tube create a composite that satisfies the requirements of ASTM F1216, ASTM D5813 and ASTM F1743, the physical properties herein, and those which are to be utilized in the submitted and approved design of the C.I.P.P. for this project.
- C. The resin shall produce a C.I.P.P. that will comply with the structural and chemical resistance requirements of this specification.

2.03 Tube

- A. Acceptable Materials
 - 1. Felt
- B. Tube Characteristics and Standards
 - 1. The sewn tube shall consist of one or more layers of absorbent non-woven felt fabric and meet the requirements of ASTM F1216, Section 5.1 or ASTM F1743, Section 5.2.1 or ASTM D 5813, Sections 5 and 6. The tube shall be constructed to withstand installation pressures, have sufficient strength to bridge missing pipe, and stretch to fit irregular pipe sections.
 - 2. The wet out tube shall have a relatively uniform thickness that when compressed at installation pressures will equal or exceed the calculated minimum design C.I.P.P. wall thickness.

3. The tube shall be manufactured to a size that, when installed and cured, will tightly fit the internal circumference and length of the original pipe. Allowance should be made for longitudinal and circumferential stretching during installation.
4. The outside layer of the tube shall be coated with an impermeable, flexible membrane that will contain the resin and allow the resin impregnation (wet out) procedure to be monitored.
5. The tube shall contain no intermediate or encapsulated elastomeric layers. No material shall be included in the Tube that may cause delamination in the cured C.I.P.P. No dry or unsaturated layers shall be evident.
6. The wall color of the interior pipe surface of C.I.P.P. after installation shall be a relatively light reflective color so that a clear detailed examination with closed circuit television inspection equipment may be made.
7. Seams in the tube shall be stronger than the non-seamed felt material.
8. The tube shall be marked for distance at regular intervals along its entire length, not to exceed 5 ft. Such markings shall include the Manufacturers name or identifying symbol.

2.04 Design Parameters

- A. The C.I.P.P. shall be designed as per ASTM F1216, Appendix X.1. The C.I.P.P. design shall assume no bonding to the original pipe wall.
- B. The Contractor must have performed long-term testing for flexural creep of the C.I.P.P. pipe material installed by his Company. Such testing results are to be used to determine the long-term, time dependent flexural modulus to be utilized in the product design. This is a performance test of the materials (Tube and Resin). A percentage of the instantaneous flexural modulus value (as measured by ASTM D790 testing) will be used in design calculations for external buckling. The percentage, or the long-term creep retention value utilized, will be verified by this testing. Retention values exceeding 50% of the short-term test results shall not be applied unless substantiated by qualified third party test data to the Owner's satisfaction. The materials utilized for the contracted project shall be of a quality equal to or better than the materials used in the long-term test with respect to the initial flexural modulus used in the C.I.P.P. design.
- C. The layers of the cured C.I.P.P. shall be uniformly bonded. It shall not be possible to separate any two layers with a probe or point of a knife blade so that the layers separate cleanly or the probe or knife blade moves freely between the layers. If the layers separate during field sample testing, new samples will be required to be obtained from the installed pipe. Any reoccurrence may cause rejection of the work.
- D. The cured-in-place pipe (C.I.P.P.) material shall conform to the structural properties, as listed below.

2.05 Minimum C.I.P.P. Physical Properties

- A. The cured pipe shall conform to the following minimum strength standards (as established by ASTM Current Active Standards):

Property	Test Method	Minimum Value
Modulus of Elasticity	ASTM D790	250,000 psi
Flexural Stress	ASTM D790	4,500 psi

- B. The required structural C.I.P.P. wall thickness shall be based, as a minimum, on the physical properties in Section 2.05.A or greater values if substantiated by independent lab testing and in accordance with the design equations in the Appendix X1, Design Considerations of ASTM F1216, and the following design parameters:

Minimum Design Safety Factor	2
Maximum Deflection	5%
Retention Factor for Long-Term Flexural Modulus to be used in Design	50% - 75%
Ovality of Pipe	2% of circumference*
Enhancement Factor, K	Not Applicable
Groundwater Depth (above invert of existing pipe)	15 ft.*
Soil Depth (above crown of existing pipe)	15 ft.
Soil Modulus	500 psi
Soil Density	120 lbs/ft ³
Soil Type	Saturated
Soil Load	120 lbs./ft ³
Traffic Load	Per AASHTO HS-20-44 Highway Loading
Design/Pipe Condition	Fully Deteriorated*

* - Denotes assumed conditions assigned by the Engineer. Ovality of pipe shall be determined by the contractor/manufacturer at the time of pre-construction and confirmed by the engineer by review and analysis of pre-construction CCTV.

- C. Any layers of the tube that are not saturated with resin prior to insertion into the existing pipe shall not be included in the structural C.I.P.P. wall thickness computation.
- D. The minimum allowable wall thickness for Felt C.I.P.P. products is 6.0 mm and can be increased as necessary to meet ASTM F1216 Design Formula in 1.5 mm increments. Fiberglass products below this minimum wall thickness will not be allowed under any circumstances.

2.06 Testing Requirements

- A. Chemical Resistance - The C.I.P.P. shall meet the chemical resistance requirements of ASTM F1216, Appendix X2. C.I.P.P. samples for testing shall be of tube and resin system similar to that proposed for actual construction. It is required that C.I.P.P. samples with and without plastic coating meet these chemical-testing requirements.
- B. Hydraulic Capacity - Overall, the hydraulic cross-section shall be maintained as large as possible. The C.I.P.P. shall have a minimum of the full flow capacity of the original pipe before rehabilitation. Calculated capacities may be derived using a commonly accepted roughness coefficient for the existing pipe material taking into consideration its age and condition.
- C. C.I.P.P. Field Samples - When requested by the Owner, the Contractor shall submit test results from field installations of the same resin system and tube materials as proposed for the actual installation. These test results must verify that the C.I.P.P. physical properties specified in Section 2.05.A have been achieved in previous field applications. Samples for this project shall be made and tested as follows:
 - 1. CIPP samples shall be prepared for each installation designated by the owner/engineer or approximately 20% of the project's installations. Pipe physical properties will be tested in accordance with ASTM F1216 or ASTM F1743, Section 8, using either method proposed. The flexural properties must meet or exceed the values listed in the table on page 4 of this specification, Table 1 of ASTM F1216 or the values submitted to the Owner/engineer by the contractor for this project's CIPP wall design, whichever is greater.
 - 2. Wall thickness of samples shall be determined as described in paragraph 8.1.6 of ASTM F1743. The minimum wall thickness at any point shall not be less than 87.5-percent of the submitted minimum design wall thickness as calculated in paragraph 2.05.B of this document.

PART 3 EXECUTION

3.01 Installation Responsibilities for Incidental Items

- A. Cleaning of Sewer Lines - The Contractor, when required, shall remove all internal debris out of the sewer line that will interfere with the installation of C.I.P.P. The Owner shall also provide a dumpsite for all debris removed from the sewers during the cleaning operation. Unless stated otherwise, it is assumed this site will be at or near the sewage treatment facility to which the debris would have arrived in absence of the cleaning operation. Any hazardous waste material encountered during this project will be considered as a changed condition.

- B. Bypassing Sewage - The Contractor, when required, shall provide for the flow of sewage around the section or sections of pipe designated for repair. Plugging the line at an existing upstream manhole and pumping the flow into a downstream manhole or adjacent system shall make the bypass. The pump(s) and bypass line(s) shall be of adequate capacity to accommodate the sewage flow. The Owner may require a detail of the bypass plan to be submitted.
- C. Inspection of Pipelines - Inspection of pipelines shall be performed by experienced personnel trained in locating breaks, obstacles and service connections using close circuit television (CCTV) inspection techniques. The pipeline interior shall be carefully inspected to determine the location of any conditions that may prevent proper installation of C.I.P.P. These shall be noted and corrected. A videotape and suitable written log for each line section shall be produced for later reference by the Owner.
- D. Line Obstructions - It shall be the responsibility of the Contractor to clear the line of obstructions such as solids and roots that will prevent the insertion of C.I.P.P. If pre-installation inspection reveals an obstruction such as a protruding service connection, dropped joint, or a collapse that will prevent the installation process, that was not evident on the pre-bid video and it cannot be removed by conventional sewer cleaning equipment, then the Contractor shall make a point repair excavation to uncover and remove or repair the obstruction. Such excavation shall be approved in writing by the Owner's representative prior to the commencement of the work and shall be considered as a separate pay item.
- E. Public Notification - The Contractor shall make every effort to maintain sewer service usage throughout the duration of the project. In the event that a connection will be out of service, the longest period of no service shall be 8 hours. A public notification program shall be implemented, and shall as a minimum, require the Contractor to be responsible for contacting each home or business connected to the sanitary sewer and informing them of the work to be conducted, and when the sewer will be off-line. The Contractor shall also provide the following:
 - 1. Written notice to be delivered to each home or business the day prior to the beginning of work being conducted on the section, and a local telephone number of the Contractor they can call to discuss the project or any potential problems.
 - 2. Personal contact with any home or business, which cannot be reconnected within the time stated in the written notice.
- F. The Contractor shall be responsible for confirming the locations of all branch service connections prior to installing the C.I.P.P.

3.02 Installation

- A. C.I.P.P. installation shall be in accordance with ASTM F1216, Section 7, or ASTM F1743, Section 6, with the following modifications:
 - 1. Resin Impregnation - The quantity of resin used for tube impregnation shall be sufficient to fill the volume of air voids in the tube with additional allowances for polymerization shrinkage and the potential loss of resin during installation through cracks and irregularities in the original pipe wall, as applicable.

2. Tube Insertion – The wet out tube shall be positioned in the pipeline using either inversion or a pull-in method as defined within relevant ASTM standards previously stipulated. If pulled into place, a power winch or its equivalent should be utilized and care should be exercised not to damage the tube as a result of pull-in friction. The tube should be pulled-in or inverted through an existing manhole or approved access point and fully extend to the next designated manhole or termination point.
3. Temperature gauges shall be placed between the tube and the host pipe's invert position to monitor the temperatures during the cure cycle.
4. Curing shall be accomplished by utilizing hot water under hydrostatic pressure or steam pressure in accordance with the manufacturer's recommended cure schedule. A cool-down process shall be conducted that complies with the resin manufacturer's specification.

3.03 Inspection

- A. C.I.P.P. samples shall be prepared for each installation designated by the owner/engineer or approximately 20% of the project's installations. Pipe physical properties will be tested in accordance with ASTM F1216 or ASTM F1743, Section 8, using either method proposed. The flexural properties must meet or exceed the values listed in Section 2.05.A of this specification, Table 1 of ASTM F1216, or the values submitted to the Owner/engineer by the contractor for this project's C.I.P.P. wall design, whichever is greater.
- B. Wall thickness of samples shall be determined as described in paragraph 8.1.6 of ASTM F1743. The minimum wall thickness at any point shall not be less than 87½% of the submitted minimum design wall thickness as calculated in Section 2.05.B of this specification.
- C. Visual inspection of the C.I.P.P. shall be in accordance with ASTM F1743, Section 8.6.

3.04 Clean-up

- A. Upon acceptance of the installation work and testing, the Contractor shall restore the project area affected by the operations to a condition at least equal to that existing prior to the work.

3.05 Post Installation

- A. During the warranty period, which shall be defined as twenty-four (24) calendar months after acceptance by the Owner, any defects which will affect the integrity or strength of the liner pipe or hydraulic capacity shall be repaired at the Contractor's expense, in a manner mutually agreed to by the Owner and Contractor. The Contractor will be responsible for providing CCTV data of all lines rehabilitated with C.I.P.P. under this contract.
- B. Sealing at Manholes: The C.I.P.P. shall make a tight seal at the manhole opening with no annular gaps. Under all circumstances, the liner shall be sealed to the manhole and host pipe.
- C. Finished Pipe: The finished new cured-in-place liner shall be continuous over the entire length of each section lined, and be free from visual defects such as foreign inclusions, dry spots, pinholes, leaks and delamination.

- D. Hazardous Waste Disposal: All water or condensate needs to be disposed of in accordance with all Federal, State and local regulations as approved by the Engineer.

END OF SECTION

SECTION 02957B
SEWER LINING (UV CURED-IN-PLACE PIPE)

PART 1 GENERAL

1.02 It is the intent of this specification to provide for the reconstruction of pipelines and conduits by the installation of a resin-impregnated flexible tube, which is continuous and tightly formed to the original conduit. This specification is for fiberglass-based Cured-In-Place Pipe (C.I.P.P.) products that are cured with ultraviolet light.

1.03 General Description

- A. The method of rehabilitation shall be C.I.P.P. as described herein for the line (or lines) listed in this bid document. This method includes cleaning and video-inspection of the designated line, identification of existing live taps, removing of protruding taps by remote methods, performing point repairs, installation of a resin-impregnated tube into the existing pipe, followed by ultraviolet light curing as specified by the resin manufacturer, reopening service taps into the line, sampling and testing, and clean-up. Before final acceptance of each line segment, a post-rehabilitation video inspection sample testing must be conducted and approved. Rehabilitation must be completed for the full length from manhole to manhole, resulting in a sound, tight-fitting water-tight liner with a smooth interior surface.
- B. The Contractor, or the sub-contractor, shall not change any material, design values or procedural matters stated or approved herein, without informing the Owner and receiving written approval of the change. Such changes constitute a breach of contract and shall result in rejection and removal of work completed with the unapproved materials or processes at no cost to the Owner.
- C. Removal and replacement of fences and repair of damaged yards, lawns, sidewalks, driveways, and other public or private property, due to actions or processes related to the work being performed shall be included in the cost of the project.
- D. Traffic control, confined space entry, and work site protection shall be the responsibility of the Contractor and costs of these items are incidental to the project unless otherwise stated. The Contractor shall notify Police, Fire and Ambulance agencies, the Ohio Department of Transportation (Stark County office) and the City of Canton Traffic Engineering Department in advance of any and all road closures and detours. The Contractor shall fulfill all Ohio Department of Transportation requirements, including (but not limited to), all items identified on the plans. The Contractor shall comply with applicable OSHA trench safety rules and confined space entry procedures.
- E. All water obtained from a City fire hydrant shall be metered and paid for by the Contractor. An air gap shall be provided between pipes/hoses connected to a fire hydrant and a storage tank/equipment used by the Contractor. The cost of said water shall be included in the cost of the project. Hydrant connections are made available through the Water Department. The cost of the connection, if any, shall be paid by the Contractor.

1.04 Experience Record of Contractors

- A. The Contractor shall have successfully managed and completed C.I.P.P. rehabilitation projects on lines ranging in size from the smallest line on the project to the largest line on the project within the last three years previous to bid date.

1.05 Reference Standards

- A. ASTM C581 – Standard Practice for Determining Chemical Resistance of thermosetting resins used in glass fiber reinforced structures, intended for liquid service.
- B. ASTM D543 – Test Method for resistance of plastics to chemical reagents.
- C. ASTM D638 – Test Method for Tensile Properties of Plastics.
- D. ASTM D790 – Test Method(s) for flexural properties of un-reinforced and reinforced plastics and electrical insulating materials.
- E. ASTM F1216 (including Appendix XI) – Standard practice for rehabilitation of existing pipelines and conduits by the inversion and curing of a resin-impregnated tube.
- F. ASTM F1743-96 – Rehabilitation of existing pipelines and conduits by pulled-in-place installation of cured-in-place thermo-setting resin pipe (C.I.P.P.).
- G. APS Standard – Water tightness standard for cured-in-place thermo-setting resin pipe/Porosity Test protocol.

All ASTM Standards noted above shall be the current active standard (latest release) unless otherwise noted. In case of conflicting requirements between this specification and these referenced standards, this specification will govern.

1.06 Housekeeping

- A. Containment of sewage and site cleanliness is the responsibility of the Contractor. Fines levied by State and Federal agencies in the event of a spill or unapproved discharge shall be paid by the Contractor. Spill cleanup as well as site cleanup shall be conducted by and paid for by the Contractor. All cleanup and costs are part of acceptance of the project, without which final payment will not be made. Bypass pumping will be required while the sewer lining is being performed. See Plan Sheet 9 of 10 for specific requirements.

1.07 Bid Information

- A. This project is bid on a “price per lineal foot” basis. The distance stated on the Proposal is the Owner’s best estimate and shall be checked by the Contractor. The Owner will verify Contractor’s measurements and payment will be based on the Bid cost per lineal foot based on the Owner verified distance.
- B. Contractor shall list the following information on the Proposal in spaces provided:

1. Thickness of each segment of pipe lined.
2. Cost per foot with extended total.

C. The Contractor shall attach the following to the Proposal:

1. Type of resin to be used.
2. Attach 3rd party test results for chemical corrosion resistance testing (Section 2.02.B). Attach statement that resin is approved to be used in the proposed C.I.P.P. system (Section 2.02.B).
3. Initial (laminate design) modulus of elasticity used on this project (250,000 psi minimum).
4. Long-Term Reduction Factor.
5. Type of inner liner and outer liner to be used.
6. Certificate of "direct sizing".
7. ASTM F1216 wall thickness calculations for each segment of pipe lined.

NOTICE: FAILURE TO DO SO MAY RENDER THE BID NON-RESPONSIVE AND THE BID MAY NOT BE CONSIDERED.

1.08 Measurement and Payment

- A. The unit price stipulated under this Section shall be based on a per lineal foot basis of sewer lining and shall include all labor and material costs associated with reconstructing the sewer by the C.I.P.P. process; including, but not limited to, the pre-installation, the sewer lining, the post-installation, and field testing as described in this Section.

PART 2 PRODUCTS

2.07 Manufacturers

- A. Reline America, Inc.
- B. Approved equal

2.08 Resins

- A. Acceptable Resin Type

1. Orthothalic

- B. Resin Definitions and Physical Characteristics

1. The liquid thermosetting resin used shall produce a properly cured tube which will be resistant to abrasion caused by solids, grit, and/or sand. The cured tube shall also be resistant to corrosion due to acids and gases such as sulfuric acid, carbonic acid, hydrogen sulfide, methane, and carbon monoxide. The cured-in-place pipe system shall utilize thermosetting resins which will withstand the corrosive effects of the existing residential, commercial, and

industrial effluents, liquids and/or gases.

2. The resin system to be used shall be manufactured by an approved company selected by the cured-in-place process manufacturer. Only corrosion resistant polyester orthothalic resins shall be used.
3. The chemical corrosion resistance of the actual resin system used by the Contractor shall be tested by the resin manufacturer in accordance with ASTM F1216, D-543 or C-581 as applicable. Exposure to chemical solutions listed below shall result in a loss of not more than twenty percent (20%) of the initial physical properties when tested in accordance with ASTM C-581-87.

Chemical Solution	Concentration (%)
Tap Water (pH 6-9)	100
Nitric Acid	5
Phosphoric Acid	10
Sulfuric Acid	10
Gasoline	100
Vegetable Oil	100
Detergent	0.1
Soap	0.1

2.09 Tube

A. Acceptable Materials

1. Fiberglass

B. Tube Characteristics and Standards

1. At the time of manufacturing, each lot of glass fiber liner shall be inspected for defects and tested in accordance with applicable ASTM standards. At the time of delivery, the liner shall be homogeneous throughout, uniform in color, free of cracks, holes, foreign materials, blisters, and deleterious faults.
2. For testing purposes, a production lot shall consist of all liners having the same marking number. It shall include any and all items produced during any given work shift and must be so identified as opposed to previous or ensuing production.
3. The ENGINEER may at any time direct the manufacturer to obtain compound samples and prepare test specimens in accordance with applicable ASTM standards.
4. An "inner liner" and "outer liner" film must be used for resin control (to prevent resin migration and contamination). The "inner film" and "outer film" must both be certified styrene gas barriers. The "inner liner" film must be removed during the installation process unless it is a permanent part of the system and is made an integral part of the carrier tube by bonding or fusing to the carrier tube.
5. The material shall be manufactured in such a manner as to result in a tight-fitting, continuous liner after installation. There shall be no measurable annular space. The liner shall have a snug fit at manhole terminations as shall be evidenced by flares.
6. All wet-out or impregnation of the tube must be done in an EPA-regulated, quality-controlled facility. Documentation of EPA permitting must be submitted with all qualified bids. No "over the hole" or "on-site" wet-out is allowed. For products that are cured with hot water, the wet-out must be conducted within 300 miles of the job site considering the

time-sensitive characteristics of thermal-cured products.

C. Fiberglass Tube

The Tube shall consist of a seamless and spirally wound glass fiber, including an exterior and interior film that protects and contains the resin in the fiber. The exterior film will be provided with a UV light blocker foil.

1. Tube

- a. The Tube shall consist of a seamless, spirally wound glass fiber that is flexible and has strain values (expandable) of equal to eight (8) to ten (10) percent. The tube will not have a longitudinal seam, including a stitched seam, stitch-free-weld or bond, or stitch-free overlap. The tube shall be constructed to withstand installation pressures and have sufficient strength to bridge missing pipe.
- b. The impregnated Tube shall have a uniform thickness, that when compressed at installation pressures, will meet or exceed the Design thickness. If voids are present in the pipe, the Design wall thickness must still be met or exceeded.
- c. The Tube shall be sized such that when installed, it will tightly fit the internal circumference and length of the original pipe.
- d. The glass fiber Tube shall be saturated with the appropriate resin using a resin bath to allow for the lowest possible amount of air entrapment. Vacuum-suction impregnation methods are not allowed due to the introduction of air using this method. The liner will then be formed into a spirally wound shape for the purpose of being seamless in its cured state. An inner and outer material will be added that are both impervious to airborne styrene, with the outer material also having UV blocking characteristics. The inner membrane will be removed after the installation and curing processes are completed.
- e. The wall color of the interior pipe surface of C.I.P.P. after installation shall be a light reflective color so that a clear detailed examination with closed circuit television inspection equipment may be made.
- f. The liner should be seamless in its cured state to insure homogenous physical properties around the circumference of the cured liner.
- g. The manufacturer will test the raw materials and liner materials at various stages of manufacturing on every liner, including taking samples of every finished liner and conducting tests for e-modulus, tensile, wall thickness and porosity.
- h. Fiberglass materials must be "direct sized" to enhance the fiberglass/resin bond. Certification of this coating and its compatibility with the resin system used is required.
- i. The Tube shall be constructed to withstand installation pressures and have sufficient strength to bridge missing pipe while meeting or exceeding the Design wall thickness at all pipe locations during installation conditions and pressures.

2.010 Design Parameters

- A. The newly installed liner shall be **designed for a minimum fifty-year service life** under continuous loading conditions. The design shall assume no bonding to the original pipe wall. The liner shall be designed to withstand all imposed loads.

Minimum Design Safety Factor	2
Maximum Deflection	5%
Retention Factor for Long-Term Flexural Modulus to be used in Design	50% - 75%
Ovality of Pipe	2% of circumference*
Enhancement Factor, K	Not Applicable
Groundwater Depth (above invert of existing pipe)	15 ft.*
Soil Depth (above crown of existing pipe)	15 ft.
Soil Modulus	500 psi
Soil Density	120 lbs/ft ³
Soil Type	Saturated
Soil Load	120 lbs./ft ³
Traffic Load	Per AASHTO HS-20-44 Highway Loading
Design/Pipe Condition	Fully Deteriorated*

** - Denotes assumed conditions assigned by the Engineer. Ovality of pipe shall be determined by the contractor/manufacturer at the time of pre-construction and confirmed by the engineer by review and analysis of pre-construction CCTV.*

- B. Wall thickness design calculations for each pipe to be rehabilitated via the C.I.P.P. method must be submitted with all qualified bids, along with supporting formulas that document that version of formula used. Additionally, product-specific strength values, including the short term flexural modulus and the long term flexural modulus reduction factor, must be substantiated by third-party testing which will be submitted with all qualified bids. The materials utilized for the contracted project shall be of a quality equal to or better than the materials used in the long-term test with respect to the initial flexural modulus and long term reduction factor used in Design. Any layers of the tube that are not saturated with resin prior to insertion into the existing pipe shall not be included in the structural C.I.P.P. wall thickness computation.
- C. Minimum C.I.P.P. PHYSICAL PROPERTIES: The cured pipe shall conform to the following minimum strength standards (as established by ASTM Current Active Standards):

Property	Test Method	Minimum Value
Modulus of Elasticity	ASTM D790	250,000 psi
Tensile Stress	ASTM D638	3,000 psi
Flexural Stress	ASTM D790	4,500 psi

2.5 Liner Thickness

- A. The minimum allowable wall thickness for Fiberglass C.I.P.P. products is 10.5 mm and can be increased as necessary to meet ASTM F1216 Design Formula in 0.7 mm increments. Fiberglass products below this minimum wall thickness will not be allowed under any circumstances.

PART 3 EXECUTION

3.5 Installation

- A. Installation of the impregnated liner may be by inversion or insertion as specified by the manufacturer. All equipment, labor, materials, and processes required to complete the work must be ready on-site before installation begins.

3.6 Pre-Installation

- A. Prior to installation of the liner, the following activities are required.
1. Receipt and approval of pre-installation submittals.
 2. Verification of line condition and any obstructions by video inspection. Note – bypass pumping is required for video inspection.
 3. Verification of existing taps in service by flowing water, dye test, or visually with a pan and tilt head camera or other means.
 4. Cleaning of line (recorded on video tape).
 5. Construct and complete any and all point repairs deemed necessary shall receive Owner approval before reworking the lines and the liner is installed.
- B. Prior to video inspection and C.I.P.P. installation, the diversion by-pass pumping system including back-up pumps, shall be tested and running.

3.7 Set-Up

- A. The installation area/equipment shall be securely protected and all damaged yards, driveways, walks, etc., shall be repaired at no cost to the Owner. Plastic sheeting will be used to cover the work area around the manholes and/or access points to eliminate the opportunity of environmental

contamination to the above-ground setting during the installation process.

B. For more detailed information, refer to plan sheet 9 of 10.

3.8 Tube Insertion (for fiberglass/UV cured Products)

A. A slip sheet shall be installed on the bottom half of the pipe prior to liner insertion, for the purpose of smoothing out the bottom of the liner to increase flow characteristics.

B. The preliner tube, or outer film, must be inserted into the pipe prior to inserting the liner, unless it is manufactured on the exterior of the liner, which is a normal characteristic of most fiberglass C.I.P.P. Liners.

C. A constant tension winch should be used to pull the glass fiber liner into position in the pipe. Once inserted, end plugs shall be used to cap each end of the glass fiber liner to prepare for pressurizing the liner. The end plugs should be secured with straps to prevent them from being expelled due to pressure. Liner restraints should be used in manholes.

D. The glass fiber liner shall be cured with UV light sources at a constant inner pressure. When inserting the curing equipment in the liner, care should be taken to not damage the inner film material.

1. The UV light sources should be assembled according to the manufacturer's specifications for the liner diameter. For the liner to achieve the required water tightness and specified mechanical properties, the following parameters must be controlled during the entire curing process, giving the Engineer a record of the curing parameters over every segment of the entire length of the liner. This demonstrates that the entire liner is cured properly. At a minimum, the recording will include:

- Curing speed
- Light source working and wattage
- Inner air pressure
- Exothermic (curing) temperatures
- Date and time
- Length of Timer

This will be accomplished using a computer and data base that are tamper proof. During the curing process, infrared sensors will be used to record curing data that will be submitted to Engineer with a post CCTV inspection on DVD.

2. The parameters for curing speed, inner air pressure and wattage are defined in the Quality Tracker UV curing protocol issued by the manufacturer. The optimal curing speed, or travel speed of the energized UV light sources, is determined for each length of liner based on liner diameter, liner thickness, and exothermic reaction temperature.

E. The inner film material should be removed and discarded after curing to provide optimal quality of the final product.

F. Flushing of the cured fiberglass/UV C.I.P.P. liner (to reduce styrene residual) is not required for

fiberglass/UV C.I.P.P. products that provide 3rd party test results that document styrene residual levels (without flushing) within acceptable defined levels.

3.9 Post Installation

- E. During the warranty period, which shall be defined as twenty-four (24) calendar months after acceptance by the Owner, any defects which will affect the integrity or strength of the liner pipe or hydraulic capacity shall be repaired at the Contractor's expense, in a manner mutually agreed to by the Owner and Contractor. The Contractor will be responsible for providing CCTV data of all lines rehabilitated with C.I.P.P. under this contract.
- F. Sealing at Manholes: The C.I.P.P. shall make a tight seal at the manhole opening with no annular gaps. Under all circumstances, the liner shall be sealed to the manhole and host pipe.
- G. Finished Pipe: The finished new cured-in-place liner shall be continuous over the entire length of each section lined, and be free from visual defects such as foreign inclusions, dry spots, pinholes, leaks and delamination.
- H. Hazardous Waste Disposal: All water or condensate needs to be disposed of in accordance with all Federal, State and local regulations as approved by the Engineer.

3.10 Requirements and Testing

- A. The layers of the C.I.P.P. shall be uniformly bonded. It shall not be possible to separate any two layers with a probe or point of a knife blade so that the layers separate cleanly or the probe or knife blade moves freely between the layers. If separation of the layers occurs during testing of field of samples, new samples will be cut from the work. Any reoccurrence may cause rejection of the work.
- B. Testing of the completed, installed liner consists of:
 - 1. Field testing
 - 2. Laboratory testing
- C. The Owner will pay for all initial testing described herein. Retests of failed samples shall be the responsibility of the Contractor. The cost of said retests shall be paid by the contractor, either directly to the City's testing firm or as reimbursement to the City as directed by the City Engineer.
- D. Regardless of the resin/carrier tube system used, the completed liner shall meet or exceed:
 - 1. The initial modulus of elasticity (ASTM D-790) (as stated in design calculations)
 - 2. Initial flexural strength (ASTM D-790)
 - 3. APS Porosity Standard (tight or non-porous result)
 - 4. Wall thickness values stated on each liner design sheet
- E. Values for the four parameters above which are under the minimum values stated in the specifications and/or on the Bid Form are not acceptable. An under thickness liner may be brought into compliance at no additional cost to the Owner by (1) removal and replacement of the undersized liner, or (2) addition of a second liner with the full wall thickness as stated on the liner design submittal (and after acceptable preparation of the undersized liner interior). Option (2) will

be considered by the Owner on a case by case basis considering the resulting loss of flow capacity, and can be refused by the Owner for that reason. The addition of a thin liner that makes up the amount of undersizing is not an acceptable remedy because the structural properties of C.I.P.P. liners are not additive if they are not cured simultaneously and therefore are bonded together to act as a single liner.

- F. In the event of a liner failure of either/both the flexural strength and the modulus tests, another flat plate sample shall be tested. Should the second sample fail, the liner shall be brought into satisfactory compliance by the above methods.

3.11 Sample Requirements

- A. The following sample shall be taken for each section of sewer lined.
 - 1. Two (2) cores of 12" diameter minimum taken from the inside of the pipe or an 18" full hoop sample as a restrained sample in the manhole equal to the exact ID of the lined pipe (field test).

3.12 Field Test (Thickness)

- A. Remove the C.I.P.P. liner material from the host pipe core samples. Remove any resin that is not contained within the felt tube. Measure the liner thickness at three spots on each sample. The resulting six measurements will be averaged. The average thickness shall be equal to or greater than the required thickness for the particular section stated on the bid form. No undersize allowance is permitted. In accordance with D 790-03, referenced in ASTM 1216, the calculated wall thickness refers only to the part of the liner that consists of a saturated felt tube. Elements that are not part of the saturated felt tube do not contribute to the structural integrity of the liner, thereby excluding felt tube that is not fully saturated or portions of resin without the felt tube carrier.
- B. If the Contractor takes his sample from inside the line, he must repair the spot with a method approved by the Engineer.
- C. "No Dig" option: At Owner's option, in lieu of excavation for core samples, the liner shall be run through 18" long section of line-sized pipe, or an appropriate restraint, to act as a mold for the liner and cured. One such sample shall be taken from liner at starting manhole and one at the ending manhole or the section being lined.

3.13 Laboratory Testing

- A. Samples obtained for these tests will be sent by the Owner to an approved laboratory for testing. The Owner will pay for all initial testing described herein. Retests of failed samples shall be the responsibility of the Contractor. The cost of said retests shall be paid by the contractor, either directly to the City's testing firm or as reimbursement to the City as directed by the City Engineer.

END OF SECTION

SUPPLEMENTAL SPECIFICATIONS

(73.1) Project Submittals: The following listed items are the full responsibility of the Contractor, and shall be made part of the administrative duties imposed upon this Contract. The Contractor shall be responsible for submitting all detail items prior to the contract Notice of Commencement, or as directed by the City's Project Manager. All items shall be accompanied by a typewritten letter, on Company letterhead, clearly describing what is being submitted. If Contractor elects to fax any documentation due to expediency, the Contractor will be responsible for submitting hard copy for project documentation. Any and all information not clearly legible will be rejected. **All project submittals should be submitted with four copies, unless otherwise denoted.**

Contractor will clearly affix a label or stamp identifying the submittal and its status for project review. All actions other than "no exception taken" will require supporting notation or information for project review.

Submittals shall be made in sufficient time to allow at least 10 business days for City's review and execution. The City Project Manager shall assist the Contractor with any questions or clarification during this process to ensure timely response to the Contractor.

Payment for the performance of the work hereafter listed shall not be paid for directly, and shall be considered as a subsidiary obligation of the Contractor.

1. Shop Drawings
2. Preconstruction Video
3. Progress Schedule
4. Release Statement for Disposal of Excavated Material
5. Traffic Control Plan
6. Contractor and Subcontractor Emergency Contact List
7. Statements of Final Compliance

1. Shop Drawings

- a) Upon written request from the Engineer, the Contractor shall submit detailed drawings, acceptable catalog data, specification and material certifications for all materials and/or equipment specialized or required for the proper completion of the work.
- b) Shop Drawings shall be submitted in not less than four (4) copies to the Engineer.
- c) Shop Drawings shall be submitted in proper sequence of construction to cause no delay in the work. The Engineer shall be given ten (10) business days to review submittals. The Contractor's failure to transmit appropriate submittals to the Engineer sufficiently in advance of work shall not be grounds for time extension. Also, no work shall be performed requiring shop drawings until same have been approved by the Engineer.
- d) Each Shop Drawing shall be labeled with the following:
 1. Project Name
 2. General Project Number (GP 1137)
 3. Name of Contractor
 4. Name of Subcontractor (if applicable)

5. Name and Address of Supplier and/or Manufacturer
 6. Log Reference Number
 - e) The Contractor is responsible for reviewing and approving all shop drawings prior to submittal. The Engineer's review shall not be construed as placing on himself any responsibility for the accuracy of said drawings.
2. **Preconstruction Video:** Prior to actual construction, the Contractor shall have taken televised pictures of the entire length and width of the work site.
- a) The Contractor shall notify the Engineering Department prior to scheduling the televising of the site. A representative of the Engineering Department shall be present when video is taken.
 - b) Video cassettes shall be equal to Scotch Videocassette T-120, cassette enclosed in vinyl plastic box. The video and audio recordings shall be compatible for replay on standard VHS video cassette recorder. DVD disks may be submitted as alternate medium with the Engineer's approval.
 - c) The video portion of the cassette shall have continuous time and date incorporated into it. Cassettes shall be numbered consecutively along the site of the work. The locations and person(s) doing the work shall also be recorded.
 - d) All cassettes shall become the property of the Engineer, and shall be submitted to and accepted in full by the Engineering Department prior to the start of construction.
3. **Progress Schedule:** The Contractor shall provide to the City, as mutually agreed upon at the Contract's Preconstruction meeting, a graphic progress schedule, which shall include the following:
- a) Progress schedule as a minimum to be prepared in **CRITICAL PATH METHOD FORMAT (CPM)**. The schedule shall be submitted, as a minimum, on 11" x 17" format for clarity and any necessary notations. Progress schedule shall include all work activities relative to the project, as further described in the Contract. Activities and rate of expected progress to secure completion as set forth in the Contract shall be shown on the schedule. Contractor to annotate any milestones that may be indicated in the Contract. Project completion date shall be clearly defined on the original schedule and all ensuing schedules provided.
 - b) Schedules shall be updated, as a minimum, every 30 days, or as agreed to by the City's Project Manager.
4. **Release Statement for Disposal of Excavated Materials**
- (a) The Contractor shall provide to the City a written consent statement from all property owners that may be used as landfill depositories for all surplus or unsuitable excavated material from the project site.
 - (b) The Contractor shall follow ODOT 203.05 for specific guidelines and name the "City of Canton" in lieu of "the Department" on all forwarded documents.
5. **Traffic Control Plan:** Contractor shall submit a graphical presentation or written document detailing the signage to be used and its location for maintenance of traffic. If traffic control will be performed in stages, submit a plan for each stage. Any proposed detours should be

approved by the Engineer prior to plan submission.

6. **Contractor and Subcontractor Emergency Contact List:** Contractor shall submit to the Engineer, prior to commencing construction, a complete list of the Contractor's personnel associated with the project. List should include name, title, and emergency contact phone numbers for each individual.
7. **Statements of Final Compliance:** The Contractor shall submit to the City the following documentation, in addition to the Project's General Conditions. All submittals shall be completed and approved prior to the release of the final retainer.
- a) Certificates of Substantial and Final Completion. Contractor to submit in writing, the date on which work is substantially completed and upon Final Completion. Any deviation from the stated contract completion date to what is being submitted shall be explained further by the Contractor. The City, at their discretion, will further review this subject, as needed.
 - b) Final Waiver of Lien
Contractor shall furnish a written report indicating the resolution of any and all property damage claims filed with Contractor by any party during the contract period. The information shall include the name of claimant; date filed with Contractor; name of Insurance Company and/or Adjustor handling the claim; how the claim was resolved; if claim was not resolved for the full amount, a statement indicating the reason for such action. If there were no damage claims filed with the Contractor, then this shall be so stated in the report.

(73.2) **Asphalt Price Adjustment:** The contract items for asphalt concrete pavement are **NOT** eligible for price adjustment as specified in the State of Ohio Department of Transportation Construction Manual, Section 401.20

(73.3) **Additional Supplemental Specifications:** See Following Specifications:

- 01-00 Project Documentation and Submittal Requirements for All Public Works Projects and Subdivision Developments
- 02-00 Testing for Excessive Deflection for Non-Pressure Thermoplastic Sewer Pipe
- 03-00 Testing Practices for Low-Pressure Air Testing of Installed, Non-Pressure, Thermoplastic Pipe
- 04-01 Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure Test
- 05-01 Closed Circuit Television (CCTV) Inspection and Documentation Procedure

Supplemental Specification 01-00

PROJECT DOCUMENTATION AND SUBMITTAL REQUIREMENTS FOR ALL PUBLIC WORK PROJECTS AND SUBDIVISION DEVELOPMENTS

September, 2000
* Revised March, 2001

- 01.00 Project Submittals
- 01.01 Shop Drawings
- 01.02 Preconstruction Video
- 01.03 Progress Schedule
- 01.04 Release Statement for Disposal of Excavated Material
- 01.05 Traffic Control Plan
- 01.06 Contractor and Subcontractor Emergency Contact List
- 01.07 Statements of Final Compliance

01.00 PROJECT SUBMITTALS: The listed items shown above are the full responsibility of the **Prime Contractor** and or **Developer/Contractor**, hereafter shown as “**Contractor**”, and shall be made part of the administrative duties imposed upon this Contract. The Contractor shall be responsible for submitting all detail items prior to the contract Notice of Commencement, or as directed by the City’s Project Manager. All items shall be accompanied by a typewritten letter, on Company letterhead, clearly describing what is being submitted. If Contractor elects to fax any documentation due to expediency, the Contractor will be responsible for submitting hard copy for project documentation. Any and all submittals not clearly legible will be rejected.

All project submittals should be submitted with four copies, unless otherwise denoted.

Contractor will clearly affix a label or stamp identifying the submittal and its status for project review. Submittals shall be made in sufficient time to allow **at least 10 business days** for City’s review and execution. The City Project Manager shall assist the Contractor with any questions or clarification during this process to ensure timely response to the Contractor. All actions noted by the City other than “no exception taken” will require supporting notation or information for project review.

Payment for the performance of the work hereafter listed shall not be paid for directly, and shall be considered as a subsidiary obligation of the Contractor.

01.01 SHOP DRAWINGS:

- a) Upon written request from the Engineer, the Contractor shall submit detailed drawings, acceptable catalog data, specification and material certifications for all materials and/or equipment specialized or required for the proper completion of the work.

- b) Shop Drawings shall be submitted in not less than four (4) copies to the Engineer.
- c) Shop Drawings shall be submitted in proper sequence of construction to cause no delay in the work. The Engineer shall be given **ten (10) business days** to review submittals. The Contractor's failure to transmit appropriate submittals to the Engineer sufficiently in advance of work shall not be grounds for time extension. Also, no work shall be performed requiring shop drawings until same have been approved by the Engineer.
- d) Each Shop Drawing shall be labeled with the following:
 - 1. Project Name
 - 2. General Project Number (GP XXXX), if applicable
 - 3. Subdivision Description, if applicable
 - 4. Name of Contractor
 - 5. Name of Subcontractor (if applicable)
 - 6. Name and Address of Supplier and/or Manufacturer
 - 7. Log Reference Number
- e) The Contractor is responsible for reviewing and approving all shop drawings prior to submittal. The Engineer's review shall not be construed as placing on himself any responsibility for the accuracy of said drawings.

01.02 PRECONSTRUCTION VIDEO: Prior to actual construction, the Contractor shall have taken televised pictures of the entire length and width of the work site.

- a) The Contractor shall notify the Engineering Department prior to scheduling the televising of the site. A representative of the Engineering Department shall be present when video is taken.
- b) Video cassettes shall be equal to Scotch Videocassette T-120, cassette enclosed in vinyl plastic box. The video and audio recordings shall be compatible for replay on standard VHS video cassette recorder. DVD disks may be submitted as alternate medium with the Engineer's approval.
- c) The video portion of the cassette shall have continuous time and date incorporated into it. Cassettes shall be numbered consecutively along the site of the work. The locations and person(s) doing the work shall also be recorded.
- d) All cassettes shall become the property of the Engineer, and shall be submitted to and accepted in full by the Engineering Department prior to the start of construction.

01.03 PROGRESS SCHEDULE: The Contractor shall provide to the City, as mutually agreed upon at the Contract's Preconstruction meeting, a graphic progress schedule that shall include the following:

- a) Progress schedule as a minimum to be prepared in bar graph fashion. The schedule shall be submitted, as a minimum, on 11" x 17" format for clarity and any necessary notations. Progress schedule shall include all work activities relative to the project, as further described in the Contract. Activities and rate of expected progress to secure completion as set forth in the Contract shall be shown on the schedule. Contractor to annotate any milestones that may be indicated in the Contract. Project completion date shall be clearly defined on the original schedule and all ensuing schedules provided.
- b) Schedules shall be updated, as a minimum, every 30 days, or as agreed to by the City's Project Manager.

01.04 RELEASE STATEMENT FOR DISPOSAL OF EXCAVATED MATERIAL:

- a) The Contractor shall provide to the City a written consent statement from all property owners that may be used as land filled depositories for all surplus or unsuitable excavated material from the project site.
- b) The Contractor shall follow ODOT 203.05 for specific guidelines and name the "City of Canton" in lieu of "the Department" on all forwarded documents.

01.05 TRAFFIC CONTROL PLAN: Contractor shall submit a graphical presentation or written document detailing the signage to be used and its location for maintenance of traffic. If traffic control will be performed in stages, submit a plan for each stage. Any proposed detours should be approved by the City Traffic Engineer prior to plan submission.

01.06 CONTRACTOR AND SUBCONTRACTOR EMERGENCY CONTACT LIST: Contractor shall submit to the Engineer, prior to commencing construction, a complete list of the Contractor's personnel associated with the project. The list should include name, title, and emergency contact phone numbers for each individual.

01.07 STATEMENT OF FINAL COMPLIANCE: The Contractor shall submit to the City the following documentation, in addition to the Project's General Conditions. All submittals shall be completed and approved prior to the release of the final retainer.

- a) Certificates of Substantial and Final Completion
Contractor to submit in writing, the date on which work is substantially completed and upon Final Completion. Any deviation from the stated contract completion date to what is being submitted shall be explained further by the Contractor. The City, at their discretion, will further review this subject, as needed. Not applicable for subdivision projects.
- b) Final Waiver of Lien
Contractor shall furnish a written report indicating the resolution of any and all property damage claims filed with Contractor by any party during the contract period. The information shall include the name of claimant; date filed with Contractor; name of

Insurance Company and/or Adjustor handling the claim; how the claim was resolved; if claim was not resolved for the full amount, a statement indicating the reason for such action. If there were no damage claims filed with the Contractor, then this shall be so stated in the report.

Supplemental Specification 02-00

TESTING FOR EXCESSIVE DEFLECTION FOR NON-PRESSURE THERMOPLASTIC SEWER PIPE

November 2010

- 02.01 Description
- 02.02 Material
- 02.03 Testing for Deflection
- 02.04 Correcting/Repairing
- 02.05 Basis of Acceptance
- 02.06 Reference Material
- 02.07 Table 1, Deflection Diameter List

02.01 DESCRIPTION. This item shall consist of furnishing all labor, material and equipment, including all cleaning and flushing of new sewers to complete this test for approval by the City.

The cost for all work related to this item shall be considered incidental to the cost of the new sewer. No separate payment will be made by the City.

All main line sanitary sewers 8" in diameter and larger shall be tested for a maximum deflection of 5% of the pipe average inside diameter not less than 30 days after final full backfill, including all compaction efforts and jetting has been placed, as determined by the City. The average inside diameter is determined by the latest edition of ASTM F679.

02.02 MATERIAL. The tests shall be conducted using electronic equipment specifically designed for measuring and recording deflection in flexible pipe or by the use of an approved deflection probe, having a diameter equal to 95% of the average inside diameter of the pipe being tested, pulled through the sewer line. See Table 1. for additional information.

The deflection probe shall be as available from Wortco, Inc.; Burke Concrete Accessories, Inc.; or equal, and shall be designed specifically for testing the deflection of the type of pipe specified. The probe shall incorporate an odd number (no less than 9) of ½" x 3/16" bar stock runners equally spaced on edge around and welded to the circumference of two minimum 1/4" thick circular steel plates. The diameter of the probes for the types and nominal sizes of the pipes to be tested shall be equal to 95% of the average inside diameter of the respective pipes as specifically given or determined by the Engineer from information given in the appropriate ASTM Standard for the pipe. The distance between plates, out-to-out, shall not be less than 2" smaller than the nominal diameter of the pipe to be tested. The runners shall extend approximately 1-1/2" beyond each plate, being bent inward for this distance at approximately 30°. A continuous 3/4" threaded rod shall be provided through the center of the plates, having a hex nut drawn tight against the inside face of each plate, and extending each side as required for providing a 3/4" ferrule loop insert or similar piece for attaching the pulling medium.

02.03 TESTING FOR DEFLECTION. The Contractor shall schedule with the City's Project Representative at least 48 hours in advance to the commencement of test.

The Contractor shall assign personnel or firm familiar with testing procedures and their requirements set forth.

The Contractor and City's Project Representative shall be present at all times during the testing procedure. All testing results shall be documented and recorded, at the time of test, on the City's approved test form.

Deflection test shall be performed between two consecutive manholes. If deflection probe is used, test shall be performed without mechanical pulling devices. Prior to the use of said deflection probe, a proving ring, provided by the Contractor and approved by the City, shall be available at the time the probe is used. The proving ring shall have an I. D. equal to the approved O. D. of the probe.

02.04 CORRECTING OR REPAIRING. If deflection probe becomes stuck or stopped for any reason between manholes, Contractor shall immediately notify the City Project Representative.

Contractor shall be responsible for all corrective procedures, methods and operational techniques. Following correctional procedure, as approved by the City, the Contractor shall be obligated to retest the section of pipe, as previously tested. If repair necessitated a replacement of pipe, the City reserves the right to require an additional retest of the said section, 30 days following this repair. All labor, material, and equipment necessary for correcting any new section of sewer shall be the responsibility of the Contractor.

02.05 BASIS OF ACCEPTANCE. In order for the City to consider a system , in part or whole, approved in this testing procedure, all deflection testing methods, as approved, shall be proofed from manhole structure to manhole structure.

02.06 REFERENCE MATERIAL. The City may reference ASTM F679 for supplemental information.

02.07 Table 1, Deflection Diameter List

TABLE 1
THERMOPLASTIC PIPE, PVC, SDR 26
AVERAGE INSIDE DIAMETERS
5.0% DEFLECTION MANDREL DIMENSIONS

NOMINAL PIPE SIZE (IN.)	SDR	AVERAGE INSIDE DIAMETER (IN.)	O. D. OF 5.0% DEFLECTION PROBE (IN.)
18	26	16.53	15.70

Supplemental Specification 03-00

TESTING PRACTICES FOR LOW-PRESSURE AIR TESTING OF INSTALLED, NON-PRESSURE, THERMOPLASTIC SEWER PIPE

November 2010

- 03.01 Description
- 03-02 Material/Safety
- 03-03 Testing for Leaks
- 03-04 Correcting/Repairing
- 03-05 Basis of Acceptance
- 03-06 Reference Material

03.01 DESCRIPTION. This item shall consist of furnishing all labor, material and equipment to complete this test for approval by the City.

The cost for all work related to this item shall be considered incidental to the cost of the new sewer. No separate payment will be made by the City.

All main lines and laterals shall be tested for air leaks and their associated level of acceptance.

Air testing of new main line and laterals may be done at any time during the installation of the new sewers, following the initial bedding, backfilling and securing are completed.

However, in the event deflection testing requires a repair or replacement of new sewer, the Contractor shall be obligated to re-air test the repaired section of the sewer.

03.02 EQUIPMENT/SAFETY: List of Equipment

Plug Design: Either mechanical or pneumatic plugs may be used. All plugs shall be designed to resist internal testing pressures without the aid of external bracing or blocking. However, the Contractor should internally restrain or externally brace the plugs to the manhole wall as an added safety precaution throughout the test.

Singular Control Panel: To facilitate test verification by the City, all air used shall pass through a single, above ground control panel.

Equipment Controls: The above ground air control equipment shall include a shut-off valve, pressure regulating valve, pressure relief valve, in-put pressure gauge and a continuous monitoring pressure gauge having a pressure range from 0 to at least 10 psi. The continuous monitoring gauge shall be no less than 4 inches in diameter with minimum divisions of 0.10 psi and an accuracy of +/-0.04 psi.

Separate Hoses: Two separate hoses shall be used to: (1) connect the control panel to the sealed line for introducing low-pressure air, and (2) an separate hose connection for constant monitoring of air pressure build-up in the line. This requirement greatly diminishes any chance for over-pressurizing the line.

Pneumatic Plugs: If pneumatic plugs are utilized, a separate hose shall also be required to inflate the pneumatic plugs from the above ground control panel.

Air Source: As approved by the City.

03.03 TESTING FOR LEAKS. The Contractor shall arrange with the City's Project Representative at least 48 hours in advance to the commencement of test.

The Contractor shall assign personnel or firm familiar with testing procedures and their requirements set forth.

The Contractor and City's Project Representative shall be present at all times during the testing procedure. All testing results shall be documented and recorded, at the time of test, on the City's approved test form.

After backfilling, air tests shall be conducted between two consecutive manholes.

Each end of the section to be tested and all pipe outlets in the section shall be plugged with approved test plugs. One plug used at a manhole shall have an inlet tap or other provision for connecting an air hose from the air supply equipment. The equipment shall include valves to control the rate at which air flows into the test section and pressure gauges with minimum graduations of 0.1 psi and an accuracy of +/- 0.04 psi to monitor the air pressure within the test section.

Air pressure shall be applied slowly to the test section until the pressure reaches 4.0 psi, plus an adjustment of 0.433 psi for each foot of ground water above the crown of the pipe being tested. Internal air pressure, including adjustment for ground water, should never exceed 5.0 psi. When the pressure reaches 4.0 psi, plus adjustment for ground water, the air supply shall be throttled so that the internal pressure is maintained between 4.0 and 3.5 psi for at least two minutes to permit temperature stabilization. When the pressure has stabilized and is at or above 3.5 psi, the air supply shall be disconnected and a stop watch started and allowed to run until the pressure has dropped 1.0 psi

The permissible time allocated for the 1.0 psi pressure drop shall be calculated on the basis of the diameter and length of main sewer tested and no adjustment shall be made for service connections included in the test section. The air test for a section shall be considered acceptable if the time elapsed for the 1.0 psi pressure drop is equal to or greater than the time indicated, and shall be considered unacceptable if the elapsed time is less than that indicated in the following table:

MINIMUM HOLDING TIME IN MINUTES REQUIRED FOR 1.0 PSI PRESSURE DROP

LENGTH OF MAIN LINE TESTED*

For Plastic Pipes Only:

MINIMUM HOLDING TIME IN MINUTES: SECONDS REQUIRED FOR 1.0 PSI PRESSURE DROP **								
PIPE DIAMETER	LENGTH OF MAIN LINE TESTED *							
	100'	150'	200'	250'	300'	350'	400'	450'
4"	3:46	3:46	3:46	3:46	3:46	3:46	3:42	3:46
6"	5:40	5:40	5:40	5:40	5:40	5:40	5:42	6:24
8"	7:34	7:34	7:34	7:34	7:36	8:52	10:08	11:24
10"	9:26	9:26	9:26	9:53	11:52	13:51	15:49	17:48
12"	11:20	11:20	11:24	14:15	17:05	19:56	22:47	25:38
15"	14:10	14:10	17:48	22:15	26:42	31:09	35:36	40:04
18"	17:00	19:13	25:38	32:03	38:27	44:52	51:16	57:41
21"	19:50	26:10	34:54	43:37	52:21	61:00	69:48	78:31
24"	22:47	34:11	45:34	56:58	68:22	79:46	91:10	102:33
27"	28:51	43:16	57:41	72:07	86:32	100:57	115:22	129:48

* Time for intermediate lengths shall be interpolated by the City.

** If the test section fails and service connections were included in the test, re-compute test time to include service connections in accordance with 9.6 of ASTM F1417.

03.04 CORRECTING OR REPAIRING. If air testing procedure fails for any reason, based on limitation previously set forth, the Contractor shall immediately notify the City Project Representative.

Contractor shall be responsible for all corrective procedures, methods and operational techniques. Following correctional procedure, as approved by the City, the Contractor shall be obligated to retest the section of pipe, as previously tested. If repair necessitated a replacement of pipe, the City reserves the right to retest the said section, 30 days following this repair. All labor, material, and equipment necessary for correcting any new section of sewer shall be the responsibility of the Contractor.

03.05 BASIS OF ACCEPTANCE. In order for the City to consider a system, in part or whole, approved in this testing procedure, all air testing methods, as approved, shall be proofed from manhole structure to manhole structure.

03.06 REFERENCE MATERIAL. The City may reference other documents, including UNI-BELL PVC PIPE ASSOCIATION, UNI-B-6-90, for supplemental information.

Supplemental Specification 04-01

STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY THE NEGATIVE AIR PRESSURE TEST

April, 2001

04.01 Scope

04.02 Description

04.01 SCOPE :

This test method covers procedures for testing precast concrete manhole sections when using the vacuum test method to demonstrate the integrity of the installed materials and the construction procedures. This test method is used for testing concrete manhole sections utilizing mortar, mastic, or gasketed joints.

This test method is intended to be used as a preliminary test to enable the installer to demonstrate the condition of the concrete manholes prior to backfill. It may also be used to test manholes after backfilling; however, testing should be correlated with the connector supplier.

This standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

04.02 DESCRIPTION

See attached ASTM C 1244

Supplemental Specification 05-01

CLOSED CIRCUIT TELEVISION (CCTV) INSPECTION AND DOCUMENTATION PROCEDURE

June 2001

- 05.01 Description
- 05.02 Equipment
- 05.03 Maintenance of Traffic
- 05.04 Safety
- 05.05 Procedures for Reducing Excessive Sewerage Flow
- 05.06 Documentation of Televised Sewer Inspection

05.01 DESCRIPTION: This item shall consist of furnishing all labor, material and equipment, as specified under this section, to complete closed circuit televising and documenting sewers of various sizes, as shown on the plans or as directed by the City Engineer.

The cost for all work related to this item shall be considered incidental to the cost of the new or modified sewer . No separate payment will be made by the City.

All main lines shall be inspected and documented for acceptability and provide documentation to any potential problems or deviations from the proposed specifications

Televising inspection service may be done simultaneously with deflection test as approved by the City Engineer. However, in the event of deflection failure or low pressure air testing fails and a repair or replacement of the sewer is required , the Contractor shall be obligated to re-televising and document the repaired section of the sewer.

The Contractor shall be responsible for obtaining information such as: depth of flow, sewer velocities, rates of flow, manhole depths, air quality in sewers, traffic conditions and other pertinent information which may be necessary to complete the work as specified.

05.02 EQUIPMENT: List of Equipment

05.021 Television Camera: The television camera used for the inspection shall be one specifically designed for such inspection and have radial view capability. The lighting for the camera shall be suitable to allow a clear picture of the entire periphery of the pipe. The camera shall be operative in 100% humidity conditions and shall have either automatic or remote focus and iris controls. The camera, television monitor, video recorder and all other components of the video system shall be capable of producing color picture quality to the satisfaction of the City Engineer. The videotape with audio shall be provided on 2-hour VHS cassettes with a tape width

of ½ inch and be recorded in the 2-hour mode. The videotape shall be of the long life, self lubricating type, produced under rigid quality control standards and provide the highest quality picture and sound.

The camera shall be moved through the sewer line by devices that do not obstruct the camera view or interfere with proper documentation of sewer conditions.

05.022 Camera Monitor: The monitor shall be located on-site within a mobile TV studio large enough to accommodate a minimum of four people for the purpose of viewing the monitor during the inspection process. The City Engineer or his representative shall have access to view the monitor at all times.

05.023 Winching: When manual operated winches are used to pull the camera through the sewer line, telephones or other suitable means of communication must be established between the winch operator and the video system operator.

05.024 Accuracy: The importance of accurate distance measurements is emphasized. The video equipment shall be capable of recording an accurate horizontal distance measurement from the starting point to the point of observation of the camera. Markings on the cable, or the like, which would require interpolation for the depth of manholes is not acceptable. Accuracy of the metering device shall be verified by use of a walking meter, roll-a-tape, or other approved device, and shall be satisfactory to the City Engineer or his representative.

05.025 Miscellaneous:

LEAVE BLANK

05.03 MAINTAINING TRAFFIC: The Contractor shall arrange with the City's Project Representative at least 48 hours in advance to the commencement of procedure.

The Contractor shall be responsible for maintaining traffic at all times in accordance with the requirements set forth in the Ohio Manual of Uniform Traffic Control Devices and as per Item 614-Maintaining Traffic, of the latest edition of the Ohio Department of Transportation, Construction and Material Specifications.

All traffic control devices including plastic drums, cones, temporary signs, flashing arrow panels, etc. shall be placed in accordance with the O.D.O.T. Standard Drawings.

Any temporary roadway or lane closing(s) shall be kept to a minimum and must be approved and coordinated with the City's Traffic Engineering Office at least five (5) working days in advance. The City's Traffic Engineering Office shall notify the news media and emergency departments when necessary.

The Contractor shall maintain access to and from all properties along the line of work at all times, unless otherwise coordinated and approved by the Engineer.

05.04 SAFETY: The Developer/Contractor shall be responsible for conducting his work in accordance with all applicable laws as prescribed by the "Occupational Safety and Health Act of 1970" and shall do everything reasonable necessary to protect the life, health, safety and welfare of any employee, visitor or pedestrian.

05.05 PROCEDURES FOR REDUCING EXCESSIVE SEWERAGE FLOW (during sewer televising):

Reducing flow shall be performed with the approval of the City when the flow at the upstream manhole, of the sewer section to be televised, is greater than 33% of the pipe diameter. In the event that televising is not permitted, due to excessive depth of flow, the Contractor shall perform the work by one of the following methods only as directed by the City Engineer:

1. Televising may be performed during low flow periods (off peak hours), such as night hours. No additional compensation will be paid by the City for this work. Times for the above work shall be scheduled by the City Engineer.

2. A sewer plug, or sand bags, shall be inserted into the line upstream of the section being televised to achieve the required maximum depth of flow. (The plug shall be so designed that all or any portion of the sewage can be released during the televising inspection.) Immediately after the work has been completed for that particular section of sewer, the flow shall be restored to normal.

3. Bypass Pumping: When required, as noted above, the Contractor shall supply the

pumps, conduits, and other equipment to divert the flow of sewage around the sewer section to be televised. The bypass system shall be of sufficient capacity to handle existing flow plus additional flow that may occur during a rainstorm.

NOTE: When flow in a sewer is plugged, blocked or bypassed, the Contractor must sewer flow control operations do not cause flooding or damage to public or private property being served by the sewer system. The Contractor shall be solely responsible for any damages as a result of their actions.

05.06 DOCUMENTATION OF TELEVISED SEWER INSPECTION:

The Contractor shall assign personnel or firm familiar with televising procedures and their requirements set forth.

The Contractor and City's Project Representative shall be present at all times during the televising procedure, unless otherwise approved by the City Engineer.

Original color videotape recordings shall be forwarded to the City Engineer for replay and shall become the property of the City upon final approval of the City Engineer. The tapes shall be professionally labeled showing the City's name, the lines or sections recorded on the tape, tape number as referenced on a log, the name of the Contractor, and other labeling approved by the City Engineer. Reprocessed tapes or copies will not be accepted. All unacceptable tapes will be returned to the Contractor.

An accurate and continuous footage reading shall be superimposed on the video recording for each line inspected. The header shown on the tape prior to inspecting each line shall include at a minimum, the date of inspection, the diameter of the sewer and the manhole number designation for each manhole on the line section inspected, as established and referenced on the Contractor's inspection log.

The camera may be moved through the sewer line in either direction, at a rate not to exceed 30 feet per minute, and stopping when necessary to permit proper documentation of the sewer's condition, as outlined elsewhere in this section.

The video recording shall be augmented with audio voice recording calling out the nomenclature of the sewer system, the pipe, manholes, wyes, debris, mud, roots, water, "event" (bad joints, cracked, damaged, or deformed pipe) or any other information that would be of use to internal inspection of sewers.

The voice shall be clean, concise, and loud enough to overcome any background noise from machinery or equipment. the audio annotation shall start by identifying the pipe footage from the downstream manhole of the run and then go on to identify the "event". The camera shall stop at each "event" if it is something out of the ordinary as indicated above. It is left to the discretion of the Contractor as to whether the "event" is of such severity (or unidentifiable) to warrant

reversing the camera one or more times to catch a better view.

At locations of the “events” described above, as well as at all service connections, the camera’s radial view capabilities shall be utilized where appropriate, to carefully view the “event” so as to allow the City to make a better determination of the severity of a problem or to determine the condition of service line connections.

In addition to videotape recordings, the Contractor shall furnish the City with one copy of a television inspection log. This inspection log shall be printed on a format pre-approved by the City. The log shall accurately describe in detail and reference all information required on the videotape recording of each section chronologically.

SPECIAL PROVISIONS

(74) These Special Provisions elaborate upon, clarify and amend some of the Specifications and clauses of the Contract documents; they are a part of the Contract documents and change and amend those found elsewhere only in the manner and to the extent stated.

Federal Government Participation:

An agency of the Government may be participating financially in this project. Attention is called to the various requirements of the Federal Government in connection with this contract, all of which are contained herein, and especially to those pertaining to Labor Standards and non-discrimination in employment.

Equal employment opportunity

The Contractor will comply with all provisions of Executive Order Number 11246 of September 24, 1965, and of rules, regulations, and relevant orders of the Secretary of Labor.

E.E.O. Requirements:

All bidders will be required to comply with the City Contract Compliance Program regarding equal employment opportunity. E.E.O. Booklet and Compliance Forms will be supplied to you by the Office of Neighborhood Development of the City of Canton, the completion of which is one of the contract requirements. This form must be satisfactorily completed and reviewed, and your company must be in compliance prior to the awarding of contracts. The Board of Control will not consider any awarding of contracts until the company is fully in compliance with the requirements of Section 507.03 (b) of the Canton City Code.

Chapter 507

Equal employment opportunity in public contracts

- 507.01 Definitions.
- 507.02 Administration of program.
- 507.03 Equal employment opportunity clause.
- 507.04 Contract compliance requirements.
- 507.05 Pre-award conference.
- 507.06 Project site reports.
- 507.07 Canton Hometown Plan.
- 507.08 Construction contracts involving the Canton Hometown Plan.
- 507.09 Exemptions for contracts not involving Canton Hometown Plan.
- 507.10 Intergovernmental cooperation.
- 507.11 Severability clause.

CROSS REFERENCES

Unlawful discriminatory practices - see Ohio R. C. 4112.02

Contracts - see ADM. Ch. 105

Unlawful interest in public contract - see GEN. OFF. 525.10

507.01 Definitions.

As used in this chapter, certain terms are defined as follows:

(a) "Discriminate" and "discrimination" means to distinguish, differentiate, separate or segregate solely on the basis of race, religion, color, sex or national origin.

(b) "Contractor" means any person, partnership, corporation, association or joint venture, and includes each and every subcontractor on such a contract and every supplier of equipment or supplies.

(c) "Subcontractor" means any person, partnership, corporation, association or joint venture which supplies any of the work, labor, services, supplies, equipment, materials or any combination of the foregoing under a contract with the contractor on a public contract.

(d) "Public Contract" means any contract awarded by the City whereby the City is committed to expend or does expend its funds in return for work, labor, services, supplies, equipment, materials or any combination of the foregoing, or any lease, lease by way of concession, concession agreement, permit or permit agreement whereby the City leaves, grants or demises property of the City or otherwise grants a right or privilege to occupy or use property of the City.

(e) "Bidder" means any person, partnership, corporation, association or joint venture seeking to be awarded a public contract.

(f) "Construction contract" means any public contract for the construction, rehabilitation, alteration, conversion, extension or repair of buildings, streets or other improvements to real property. (Ord. 179-74. Passed 6-17-74.)

507.02 Administration of program.

The Executive Secretary of the City Fair Employment Practices Commission, hereinafter referred to as the Executive Secretary, with the assistance of the Director of Public Safety, shall administer and enforce the provisions of this chapter and shall adjust, promulgate and enforce rules and regulations relating to any matter or thing pertaining to the administration and enforcement of the provisions of this chapter. (Ord. 179-74. Passed 6-17-74.)

507.03 Equal employment opportunity clause.

(a) Except as provided in Sections 507.07 and 507.08, all public contracts hereinafter entered by the City in excess of one thousand five hundred dollars (\$1,500) shall incorporate an equal employment opportunity clause which shall read as follows:

(b) During the performance of this contract, the Contractor agrees as follows:

(1) The Contractor shall not discriminate against any employee or applicant for employment because of race, religion, color, sex or national origin. The Contractor shall take affirmative action to insure that applicants are employed and that employees are treated during employment without regard to race, religion, color, sex or national origin. As used herein, the word "treated" shall mean and include without limitation the following: recruited, whether by advertising or other means; compensation, whether in the form of rates of pay or other forms of compensation; selected for training, including apprenticeship; promoted; demoted; upgraded; downgraded; transferred; laid off; and terminated. The Contractor agrees to and shall post in conspicuous places available to employees and applicants for employment notices to be provided by the contracting officers setting forth the provisions of this nondiscrimination clause.

(2) The Contractor shall, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, religion, color, sex or national origin.

(3) The Contractor shall send to each labor union or representative of workers, with which he has a collective bargaining agreement or other contract or understanding, a notice advising the labor union or workers' representative of the Contractor's commitments under the equal opportunity clause of the City; and he shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(4) The Contractor shall submit in writing to the City his affirmative action plan, and each subcontractor and supplier of equipment or supplies shall submit to the general contractor his affirmative action plan. The responsibility for securing these affirmative action plans falls upon the general contractor and shall be on file at the office of the general contractor. The Contractor shall furnish all information and reports required by the City or its representative pursuant to this chapter, and shall permit access to his books, records, and accounts by the contracting agency and by the Executive Secretary for purposes of investigation to ascertain compliance with the program.

(5) The Contractor shall take such action with respect to any subcontractor as the City may direct as means of enforcing the provisions of this equal opportunity clause, including penalties and sanctions for noncompliance; provided, however, that in the event the Contractor becomes involved in or is threatened with litigation as the result of such direction by the City, the City will enter into such litigation as is necessary to protect the interests of the City and to effectuate the City's equal opportunity program and, in the case of contracts receiving Federal assistance, the Contractor or the City may request the United States to enter into such litigation to protect the interests of the United States.

(6) The Contractor shall file and shall cause his subcontractors, if any, to file compliance reports with the City in the form and to the extent prescribed by the City or its representative. Compliance reports filed at such times as directed shall contain information as to the employment practices, policies, programs and statistics of the Contractor and his subcontractors.

(7) The Contractor shall include the provisions of this equal employment opportunity clause in every subcontract or purchase order, so that such provisions will be binding upon each subcontractor or vendor.

(8) Refusal by the Contractor or subcontractor to comply with any portion of this program as herein stated and described will subject the offending party to any or all of the following penalties:

A. Withholding of all future payments under the involved public contract to the Contractor in violation, until it is determined that the Contractor or subcontractor is in compliance with the

provisions of this contract.

B. Refusal of all future bids for any public contract with the City or any of its departments or divisions, until such time as the Contractor or subcontractor demonstrates that he has established and shall carry out the policies of the program as herein outlined.

C. Cancellation of the public contract and declaration of forfeiture of the performance bond.

D. In cases in which there is substantial or material violation or the threat of substantial or material violation of the compliance procedure or as may be provided by contract, appropriate proceedings may be brought to enforce these provisions, including the enjoining within applicable laws of contractors, subcontractors or other organizations, individuals or groups who prevent, directly or indirectly, or seek to prevent, directly or indirectly, compliance with the policy as herein outlined. (Ord. 179-74. Passed 6-17-74.)

507.04 Contract compliance requirements.

(a) All notices to prospective bidders published on behalf of the City shall include, as a part of the contract specifications, the condition that all bidders will be required to comply with the City Contract Compliance Program regarding equal employment opportunity. All reports required herein shall be submitted in duplicate to the department, division or other agency letting the contract.

(b) Each bidder shall file, as part of the bid documents, contract employment reports with the City contracting agency or as may be directed by the City or its representative. Such contract employment reports shall include such information as to the employment practices, policies, programs and statistics of the Contractor and shall be in such form as the City may prescribe. (Ord. 179-74. Passed 6-17-74.)

507.05 Pre-award conference.

Following receipt and review of the employment information submitted by the bidders and prior to the award of a contract, the apparent successful bidder and his known major subcontractors shall be required to attend a pre-award conference if called by the Executive Secretary, at which time such bidder and major subcontractors shall submit affirmative action programs to promote equal opportunity in employment. The Executive Secretary shall determine whether or not the apparent successful bidder has complied with this chapter and shall submit his determination and recommendation thereon to the Mayor, the director of the department or division involved and the Board of Control. In the event that a contractor did not comply under the terms of this chapter, he shall be afforded a hearing before the Mayor, the City Solicitor and the President of Council within ten days from the date that such contractor is notified of his noncompliance. (Ord. 179-74. Passed 6-17-74.)

507.06 Project site reports.

Subject to Sections 507.07 and 507.08, where a construction contract exceeds ten thousand dollars (\$10,000), a project site report shall be completed and submitted by the Contractor and any subcontractor not more than ninety days from the beginning of work on the site. Such project site report shall include such information as to the employment practices and statistics of the Contractor and each subcontractor and shall be in such form as the Executive Secretary may prescribe. Where

the term of the contract exceeds ninety days, such project site report shall be submitted once every ninety days or more frequently if the Executive Secretary determines that such submittal is deemed necessary for continuing evaluation of the work force composition. Subcontractors shall complete and submit such project site reports to the Contractor for transmittal to the City. Post award reports shall be reviewed as one means of determining contract compliance. (Ord. 179-74. Passed 6-17-74.)

507.07 Canton Hometown Plan.

The Canton Hometown Plan which is composed of the East Ohio Building and Construction Trades Council, a coalition of employer associations consisting of the Ohio Contractors Association of East Central Ohio, other employers' groups and the Black Coalition of Canton is hereby adopted by reference and made a part hereof as though fully rewritten herein. (Ord. 179-74. Passed 6-17-74.)

507.08 Construction contracts involving the Canton Hometown Plan.

All construction contracts hereinafter entered by the City in excess of one thousand five hundred dollars (\$1,500) which involve contractors who are signatories and in compliance of the Canton Hometown Plan shall not be governed by the equal employment opportunity clause herein, but shall comply with the requirements and terms of the Canton Hometown Plan, providing the Canton Hometown Plan:

- (a) Is in full force and effect at the time of the contract;
- (b) Is approved by the proper Federal and/or State authorities; and
- (c) Through its administrative or executive committee on a regular basis beginning on September 1, 1974, files quarterly reports with the Executive Secretary.

In the event one or more of the conditions enumerated in subsections (a), (b) and (c) hereof are not in effect, or a contractor is not a signatory of the Canton Hometown Plan and in compliance herewith, at the time the construction contract is entered with the City as herein provided, such construction contracts shall be governed by the equal opportunity clause herein. (Ord. 179-74. Passed 6-17-74.)

507.09 Exemptions for contracts not involving Canton Hometown Plan.

All construction contract hereinafter entered by the City in excess of one thousand five hundred dollars (\$1,500), which involve contractors who are not signatories of the Canton Hometown Plan and have in their employ four or less persons, shall be exempted from the application of the equal employment opportunity clause provided herein. (Ord. 179-74. Passed 6-17-74.)

507.10 Intergovernmental cooperation.

In the event specific discriminatory practices are found to exist in the administration and enforcement of this chapter, in addition to the sanctions that may be imposed as provided by the terms of the contract, the City may forward all pertinent information to the appropriate Federal and State agencies. (Ord. 179-74. Passed 6-17-74.)

507.11 Severability clause.

Sections 507.01 through 507.10, inclusive, and each part of such sections are hereby declared to be independent sections and parts of sections; and notwithstanding any other evidence of legislative intent, it is hereby declared to be the controlling legislative intent that if any provisions of such sections or the application thereof to any person or circumstance is held invalid, the remaining sections or parts of sections and the application of such provision to any person or circumstances, other than those as to which it is held invalid, shall not be affected thereby. It is hereby declared that this chapter would have been passed independently of such sections, or parts of a section, so held to be invalid. (Ord. 179-74. Passed 6-17-74.)

**NOTICE OF FACTORS TO BE CONSIDERED IN DETERMINING
THE LOWEST AND BEST BID FOR THE CONSTRUCTION OF PUBLIC
IMPROVEMENTS AND QUESTIONNAIRE IN ACCORDANCE WITH
CANTON ORDINANCE 105.01**

NOTICE

All bidders shall hereby take notice of the factors to be considered by the Board of Control in determining whether a bid is not only the lowest bid, but the best bid. Said factors are contained in Canton Ordinance 105.01 (b) (1) through (21), a copy of which is included in these specifications.

QUESTIONNAIRE

In accordance with Canton Ordinance 105.01, each bidder must complete the following questionnaire. This questionnaire is to be completed in a truthful and responsible manner by the bidder in letter format or by separate attachment to this bid form. The City reserves the right to consider the bidder in default for any false or misleading information supplied per this questionnaire. If the bid is made by a corporation, then this questionnaire is to be completed by its properly authorized agent.

1. Please describe in detail the bidder's familiarity and experience with constructing the type of public improvement for which the bidder is submitting its bid. Along with this description, please provide a list of similar projects completed during the previous thirty-six (36) months, including the contract values, the names and telephone numbers of the owners and/or contact persons involved.
2. Please answer the following with reference to the projects listed in your answer to question No. 1: (a) the original contract price for each construction job undertaken by the bidder; (b) the amount of any change orders or costs overruns on each job; and (c) the reasons for the change orders or cost overruns.
3. Please describe in detail the bidder's performance record for timely completion on those construction projects listed in response to question 1.
4. Indicate the number of years the bidder has been actively engaged as a contractor in the construction industry.
5. Please state whether the bidder will be able to secure an acceptable performance bond.

If the response to the preceding question is in the affirmative, please submit an affidavit in accordance with the "Performance Bond Affidavit", attached hereto as Exhibit "A".

6. Please state whether any claims have been made against performance bonds secured by the bidder on other construction projects.

If the answer to the above question is in the affirmative, please state, (a) the name of the owner(s) involved in and date of said claim(s); (b) the name of the party making said claim(s); (c) the nature of said claim(s); and (d) the amount of the claim(s) made.

7. Please identify the bidder's permanent work force that will be employed on this public contract. Please identify: (a) the number of employees (or contract labor) to be assigned to the contract; (b) their city and state of residence; (c) their job descriptions or trade specialties; (d) their years of experience; and (e) the length of service of employment with your company.

8. Please identify any temporary work force that will be employed on the public contract. Please identify: (a) the number of employees (or contract labor) to be assigned to the contract; (b) their city and state of residence; and (c) and their job descriptions or trade specialties; (d) their years of experience; and (e) the length of service of employment with your company.

9. Please indicate the number of local employees, as defined by Canton City Ordinance 105.01(a)(3) (see attached), and their job descriptions or trade specialties that the bidder will employ on this public contract.

10. If the bidder claims that non-local employees (or non-local contract labor) are to be assigned to this public contract instead of local employees, please state in detail the reasons therefore.

11. In lieu of responding to questions 7 through 10, the bidder may complete and execute the affidavit, attached hereto as Exhibit "B", stating that he will employ all local labor on this public contract.

12. State whether the bidder participates in a bona fide apprenticeship program that is approved by the Ohio State Apprenticeship Council and the United States Department of Labor and if so, the length of time that the bidder has so participated.

13. Please describe whether the bidder has been notified of or cited for noncompliance with the unemployment and worker's compensation laws of Ohio.

14. Please describe whether the bidder has been notified of or cited for noncompliance with the federal and state prevailing wage laws.

15. Please describe whether the bidder has been notified of or cited for noncompliance with the Fair Labor Standards Act.

PERFORMANCE BOND AFFIDAVIT

Unless Bidder submits, with its bid, a Bid and Contract Bond per ORC. 153.571, Canton may request that the Bidder obtain, from its insurance representative, a performance bond affidavit that contains the representations noted below. The affidavit shall be made on the insurance agency's letterhead, reference this project by name and state at least the following:

- (1) The representative certifies that, should the contract be awarded to the contractor on whose behalf the certificate is being provided, the performance bond specified will be provided.
- (2) The name and A.M. Best Company ratings of companies which are expected to provide the required performance bond.

The Performance Bond affidavit shall be notarized.

AFFIDAVIT

Now comes _____, the duly authorized
representative of _____ (name of company), a
bidder on City Project _____ (identify the Project
Name) and hereby deposes and states under oath that the _____
_____ (name of Bidder's Company) shall employ all local labor for all work
to be performed on City Project _____ in the
event said bidder is awarded the Contract for said Project.

Authorized Signature of Company

Sworn to and subscribed before me this _____ day of _____,
20____.

Notary Public

My Commission Expires:

SUPPLEMENTARY GENERAL CONDITIONS

GENERAL CONDITIONS/CANTON INCOME TAX

Each bidder, by the act of submitting its bid agrees to withhold all City Income Taxes due or payable under Chapter 181 of the Codified Ordinances of the City of Canton for wages, salaries, fees and commissions paid to its employees and further agrees that any of its subcontractors shall be required to agree to withhold any such City Income Taxes due for service performed under this contract.

Furthermore, any person, firm, or agency that has a contract, or agreement with the City shall be subject to the City Income Tax whether the work being done is in the City or out of the City. In addition to the tax withheld for employees, the net profit on the contract shall be subject to the City Income Tax.

Questions regarding this matter shall be directed to the City of Canton, Income Tax Department, (330) 430-7900.

GENERAL CONDITIONS

Bidders shall take notice that they are to comply with the Codified Ordinances of the City of Canton, including but not limited, to the following:

1. Section 105.01 – (~~SEE ORDINANCE 86/2009~~)
 - **A Project Labor Agreement is not required for this project.**
2. Section 105.03 - U.S. steel usage required; exceptions.
3. Section 105.05 - Materials to be purchased locally.
4. Section 105.12 - Local preference.

Copies of the text of the above-noted Ordinance Sections are attached to these bid documents for bidders' review and compliance.

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105.03 U.S. STEEL USAGE REQUIRED; EXCEPTION.

All City contracts shall stipulate or provide that all steel necessary in the construction of any work performed under such contracts shall be steel that is produced in the United States unless a specific product which is required is not produced by manufacturers in the United States in which event this prohibition does not apply. This section shall apply to only contracts awarded by the Board of Control of the City. (Ord. 224-77. Passed 6-27-77.)

105.04 EMERGENCY CONTRACTUAL PROCEDURES.

(a) Upon the occurrence of any emergency situation within City government that affects the health, safety and welfare of this City and which requires the immediate attention on the part of the executive members of City government, the appropriate City official, i. e. Mayor, Service Director or Safety Director, a written report shall be submitted to the Clerk of Council with a copy of this report to the Chairman of the Finance Committee and, if applicable, a copy to the chairman of any other committee of Council that normally will be charged with the responsibility of the subject matter of the emergency.

(b) Such written report and copy or copies shall be submitted to Council for the Council agenda for the next succeeding Council meeting, as long as the emergency did not exist seventy-two hours before the preceding meeting.

(c) The written report shall be placed on the Council agenda for the next succeeding Council meeting.

(d) Written reports shall to the extent possible:

- (1) Describe the nature of the emergency;
- (2) Provide the various alternatives being provided to correct the problem;
- (3) Name the appropriate department head charged with the responsibility of coping with the emergency;
- (4) Name contractors or persons who are being considered to undertake the responsibility of dealing with such an emergency;
- (5) Name the contractors or persons who are performing the work necessary to undertake the responsibility of dealing with the emergency;
- (6) Provide the estimate cost for such an undertaking if this information is available; and
- (7) Provide effort and time for the work to be performed by such contractors or persons if available, and other relevant information that is necessary to give Council the full picture and the process being used to determine the resolution of such emergency.

(e) Strict compliance of the foregoing on the part of those who may have to proceed with the remedy or repair of an emergency situation without prior legislative authority will be a substantial consideration on the part of Council in subsequently enacting the legislation to compensate the person who has undertaken such emergency work.

(f) Upon receipt of such written notice, the chairman of the Council committee(s) shall make reasonable efforts to come in contact with the City department director who has assumed the responsibility of coping with such emergency situation.

(g) The Board of Control is directed to notify and invite all contractors to enter their names on a list with the City if they wish to participate in handling work or supplying material

for the City on an emergency basis. A copy of the contractors who will participate is to be registered with the Clerk of Council. (Res. 76-76. Passed 3-1-76.)

105.05 MATERIALS TO BE PURCHASED LOCALLY.

In all future contracts for the construction of buildings, structures, or other improvements under the Capital Improvement Budget, the following clause shall be printed or typewritten on each contract:

It is the desire of the City of Canton that all materials used in the construction covered by this contract shall be purchased in the Canton area except such materials which are unavailable in the Canton area.

(Res. 49-77. Passed 2-7-77.)

105.12 LOCAL BIDDER PREFERENCE.

(a) The Board of Control, in determining the lowest and best bidder in the award of contracts, is authorized to award contracts to local bidders as hereinafter defined, whose bid is not more than ten percent (10%) higher, subject to a maximum amount of one hundred thousand dollars (\$100,000.00), than the lowest dollar bid submitted by non-local bidders, provided that the project bid does not exceed ten percent (10%) of the engineer's estimate. The Board of Control's decision in making such an award shall be final.

(Ord. 86-2009. Passed 5-18-09.)

(b) For purposes of this section, "local bidder" means an individual or business entity which at the time of the award of the contract:

- (1) Is a resident of the City and/or has its principal place of business in the City;
- and
- (2) Which has filed a City of Canton "Resident" Income Tax Return for the past two tax years.

(c) All contract specifications and/or bid documents that are distributed by Canton for the purpose of soliciting bids for goods and/or services shall contain the following notice:

Prospective bidders will take notice that the City of Canton, in determining the lowest and best bidder in the award of this contract, may award a local bidder preference to any qualified bidder pursuant to Section 105.12 of the Codified Ordinances of the City of Canton. The determination of whether a bidder qualifies for the local preference shall be made by Board of Control. The Board's decision shall be final. A copy of City Code Section 105.12 is attached.

(Ord. 112-97. Passed 6-2-97.)

(d) This section shall be applicable to all contracts for the purchase of material, equipment, supplies or services, which are purchased, leased or constructed at a cost in excess of twenty thousand dollars (\$20,000) and which require bidding pursuant to Ohio R.C. 735.05 through 735.09 and Ohio R.C. 737.03.

(Ord. 112-97. Passed 6-2-97; Ord. 52-99. Passed 3-29-99; Ord. 240-2005. Passed 11-21-05.)

105.13 STATE COOPERATIVE PURCHASING WITH ODOT.

(a) The City hereby requests authority pursuant to Ohio R.C. 5513.01 to participate in State contracts which the Ohio Department of Transportation has entered into for the purchase of supplies, services, equipment and certain materials without competitive bidding.

(b) The City hereby agrees to all contract terms and conditions which the Ohio Department of Transportation may prescribe. Such terms and conditions may include a reasonable fee to cover the administrative costs which the Ohio Department of Transportation may incur as a result of the City's participation in contracts.

(c) The Director of Public Service and the Director of Public Safety are hereby authorized to act as the City's authorized agents for the purpose of executing contracts pursuant to the Cooperative Purchasing Act and the City agrees to directly pay vendors under such State contracts in which it participates for items received pursuant to contracts under this program. (Ord. 175-93. Passed 9-13-93.)

(d) The Director of Public Service and the Director of Public Safety may purchase supplies or services from another party, including another political subdivision, instead of through participation in contracts described in subsection (c) hereof if the Director can purchase those supplies or services from the other party upon equivalent terms, conditions and specifications but at a lower price than the Director can through the Cooperative Purchasing Act. Purchases that a Director makes under this section are exempt from any competitive selection procedures otherwise required by law. A Director who makes any purchase under this section shall maintain sufficient information regarding the purchase to verify that the City satisfied the conditions of making a purchase under this section. (Ord. 52-99. Passed 3-29-99.)

105.14 CHANGE ORDERS TO CONTRACTS.

(a) Change orders are amendments to contracts to provide for alterations or modifications of the scope and/or cost of the original contract. A proposed amendment to a contract which is outside the general scope of the original contract does not constitute a change order, but is rather a proposal for a new and separate contract which requires independent contractual authority and bidding, if applicable.

(b) The Director of Public Service and the Director of Public Safety are hereby authorized, without approval of Council, to approve and enter into change orders which do not in the aggregate exceed:

- (1) Ten percent (10%) of the total authorized original contract price; or
- (2) \$100,000.00, whichever is less.

This authority is subject to the availability of funding. Change orders shall additionally require approval of the Board of Control.

(c) Change orders in excess of the aggregate amounts set forth in subsection (b) hereof shall require approval of Council. The above stated limitations may be amended by Council in any legislation providing for any contract or in any subsequent amending ordinance. (Ord. 31- 2000. Passed 2-14-00.)

ADDITIONAL REQUIREMENTS AND/OR CONDITIONS

Notwithstanding any provision to the contrary, this Agreement shall be governed by Ohio Law.

Supplier agrees that Canton's specifications and bid documents shall be incorporated and made a part of any subsequent contract entered by the parties. Further, the terms, conditions and provisions found in Canton's specifications and bid documents shall supersede and control any subsequent contract provision to the contrary.

Once a contract has been fully executed by both parties, said contract shall be binding upon the parties' heirs, successors and assigns.

Supplier shall not assign or transfer any interest under this Agreement without the express written consent of Canton.

Supplier agrees to indemnify and hold harmless the City of Canton, Ohio, its employees and agents from and against any and all demands, claims, causes of action, or judgments arising from any injury or death to persons or damage to property as a result of any act or omission by Supplier, its agents, employees or subcontractors. Nothing herein shall be construed to hold Supplier liable for Canton's negligence.

Supplier's liability to the City of Canton for default shall not be limited and the City of Canton shall be entitled to all damages permitted under Ohio law upon Supplier's breach, default or non-performance under this Agreement.

A waiver of a breach of any of the terms or conditions of the contract will not be construed as a waiver of any subsequent breach. Any consent to delay in the performance of contractor of any obligation shall be applicable only to the particular transaction to which it relates, and it shall not be applicable to any other obligation or transaction. Delay in the enforcement of any remedy in the event of a breach of any term or condition of the contract, or in the exercise by either party of any right under the contract, shall not be construed as a waiver.

When it appears to the contractor during the course of construction that any work does not conform to the provisions of the contract documents it will make necessary corrections so that such work will conform, and in addition, will correct any defects caused by faulty materials, equipment or workmanship in work supervised by it or by a subcontractor, appearing with one year from the date of issuance of a certificate of substantial completion or within such longer periods as may be prescribed by law or as may be provided for by applicable special guarantees or warranties in the contract documents.

NOTICE OF WITHDRAWAL

PLEASE NOTE THAT BY SUBMITTING YOUR BID(S) TO THE CITY OF CANTON, THE CITY ASSUMES THAT SAID BID(S) HAS/HAVE BEEN REVIEWED BY AN AUTHORIZED REPRESENTATIVE OF YOUR COMPANY TO ASSURE THAT THE BID(S) IS/ARE CORRECT AND/OR ACCURATE.

ANY BIDDER MAY WITHDRAW THE BID(S), BY WRITTEN REQUEST, AT ANY TIME PRIOR TO THE HOUR SET FOR THE BID OPENING.

IF THERE IS NO WITHDRAWAL OF THE BID(S), IN ACCORDANCE WITH THE ABOVE PROCEDURE, THE CITY RESERVES THE RIGHT TO ENFORCE SAID BID PRICE(S) AND/OR CONTRACT.

BIDDER INFORMATION

1. The Bidder shall provide the following information as part of its bid.

a. Name of Bidder _____

b. Business Address _____

City State Zip

c. Business Telephone Number () _____

d. Person, address, and
telephone to whom official
notices are to be sent _____

e. Person, address and
telephone for further
information regarding
this proposal _____

f. State(s) of incorporation
(w/dates of incorporation) _____

g. Principal place of business _____

h. Working days necessary to
days complete project _____

i. Federal I.D. Number # _____

j. Amount of Certified Check,
Cashier's Check, Bid Bond \$ _____

2. Form of Business Organization.

_____ Corporation

_____ Partnership

_____ Other _____

3. The bidder shall provide the names and addresses of all persons interested as principals (officers, partners, and associates) in this proposal. Write first name in full, and give titles for offices.

_____	_____
_____	_____
_____	_____
_____	_____

All of the above, including the signatory to this bid, are citizens of the United States, except the following. (Provide names and addresses of those not a citizen of the United States.)

_____	_____
_____	_____
_____	_____
_____	_____

4. Name and address of other person, firms or companies interested in this contract.

_____	_____
_____	_____
_____	_____
_____	_____

The undersigned certifies that the bidder has the facilities, ability and financial resources available for the fulfillment of the contract if such be awarded to said bidder.

Upon request, the bidder will be expected to amplify the foregoing statements as necessary to satisfy the OWNER concerning his ability to successfully perform the work in a satisfactory manner.

Signed this _____ day of _____, 20 ____.

Contractor

By _____
(Signature of individual, partner or officer signing the proposal.)

PLEASE NOTE

IF YOUR BUSINESS IS INCORPORATED, YOU ARE REQUIRED TO SUBMIT A COPY OF YOUR CORPORATE “ARTICLES OF INCORPORATION” SHOWING EXACTLY WHAT NAME YOU ARE INCORPORATED UNDER. THE ARTICLES OF INCORPORATION ARE THE DOCUMENTS FILED WITH THE STATE (OHIO OR OTHERWISE) CREATING THE CORPORATE ENTITY.

LISTING OF SUBCONTRACTORS

The Bidder shall set forth the name, location of principal place of business, proposed amount of subcontract and type of work to be performed of each subcontractor who will perform work or labor or render service, as listed, to the bidder in or about the construction of the work or improvement to be performed under the Contract for which the attached Bid is submitted, and where the portion of the work which will be performed by each subcontractor. Note that subcontractors are distinguishable from suppliers.

Subcontractor – An individual or entity having a direct contract with CONTRACTOR or with any other Subcontractor for the performance of a part of the work at the site.

Supplier – A manufacturer, fabricator, supplier, distributor, material man, or vendor having a direct contract with CONTRACTOR or with any Subcontractor to furnish materials or equipment to be incorporated in the work by the CONTRACTOR or any Subcontractor.

The Bidder understands that if he fails to specify a subcontractor for any portion of the work to be performed under the Contract, he shall be deemed to have agreed to perform such portion itself.

CERTIFICATION

I, _____
(Name of person signing affidavit) (Title)

do hereby certify that _____ does not have an
(Company or Individual Name)

outstanding unresolved finding for recovery issued by the Auditor of the
State of Ohio as defined by Ohio Revised Code (ORC) Section 9.24 as of

_____.
(Current date)

Signature of Officer or Agent

Name (Print)

Sworn to and subscribed in my presence this _____ day of

_____, 20 _____

(Notary Public)

***** FOR INSTRUCTIONAL USE ONLY *****

READ BEFORE COMPLETING YOUR DMA FORM

Forms not conforming to the specifications listed below or not submitted to the appropriate agency or office will not be processed.

- To complete this form, you will need a copy of the Terrorist Exclusion List for reference. The Terrorist Exclusion List can be found on the Ohio Homeland Security Web site at the following address:

<http://www.homelandsecurity.ohio.gov/dma/dma.asp>

- Be sure you have the correct DMA form. If you are applying for a state issued license, permit, certification or registration, the "State Issued License" DMA form must be completed (HLS 0036). If you are applying for employment with a government entity, the "Public Employment" DMA form must be completed (HLS 0037). If you are obtaining a contract to conduct business with or receive funding from a government entity, the "Government Business and Funding Contracts" DMA form must be completed (HLS 0038).
- Your DMA form is to be submitted to the issuing agency or entity. "Issuing agency or entity" means the government agency or office that has requested the form from you or the government agency or office to which you are applying for a license, employment or a business contract. For example, if you are seeking a business contract with the Ohio Department of Commerce's Division of Financial Institutions, then the form needs to be submitted to the Department of Commerce's Division of Financial Institutions. Do NOT send the form to the Ohio Department of Public Safety UNLESS you are seeking a license from or employment or business contract with one of its eight divisions listed below.
- Department of Public Safety Divisions:

Administration	Ohio Homeland Security*
Ohio Bureau of Motor Vehicles	Ohio Investigative Unit
Ohio Emergency Management Agency	Ohio Criminal Justice Services
Ohio Emergency Medical Services	Ohio State Highway Patrol
- * DO NOT SEND THE FORM TO OHIO HOMELAND SECURITY UNLESS OTHERWISE DIRECTED. FORMS SENT TO THE WRONG AGENCY OR ENTITY WILL NOT BE PROCESSED.

***** FOR INSTRUCTIONAL USE ONLY *****



GOVERNMENT BUSINESS AND FUNDING CONTRACTS
In accordance with section 2909.33 of the Ohio Revised Code

DECLARATION REGARDING MATERIAL ASSISTANCE/NONASSISTANCE TO A TERRORIST ORGANIZATION

This form serves as a declaration by an applicant for a government contract or funding of material assistance/nonassistance to an organization on the U.S. Department of State Terrorist Exclusion List ("TEL"). Please see the Ohio Homeland Security Division Web site for a copy of the TEL.

Any answer of "yes" to any question, or the failure to answer "no" to any question on this declaration shall serve as a disclosure that material assistance to an organization identified on the U.S. Department of State Terrorist Exclusion List has been provided. Failure to disclose the provision of material assistance to such an organization or knowingly making false statements regarding material assistance to such an organization is a felony of the fifth degree.

For the purposes of this declaration, "material support or resources" means currency, payment instruments, other financial securities, funds, transfer of funds, financial services, communications, lodging, training, safe houses, false documentation or identification, communications equipment, facilities, weapons, lethal substances, explosives, personnel, transportation, and other physical assets, except medicine or religious materials.

COMPLETE THIS SECTION ONLY IF YOU ARE AN INDEPENDENT CONTRACTOR

LAST NAME		FIRST NAME		MI
HOME ADDRESS				
CITY	STATE	ZIP	COUNTY	
HOME PHONE		WORK PHONE		

COMPLETE THIS SECTION ONLY IF YOU ARE A COMPANY, BUSINESS OR ORGANIZATION

BUSINESS/ORGANIZATION NAME			PHONE	
BUSINESS ADDRESS				
CITY	STATE	ZIP	COUNTY	
BUSINESS/ORGANIZATION REPRESENTATIVE NAME			TITLE	

DECLARATION

In accordance with section 2909.32 (A)(2)(b) of the Ohio Revised Code

For each question, indicate either "yes," or "no" in the space provided. Responses must be truthful to the best of your knowledge.

- Are you a member of an organization on the U.S. Department of State Terrorist Exclusion List?
☐ Yes ☐ No
- Have you used any position of prominence you have with any country to persuade others to support an organization on the U.S. Department of State Terrorist Exclusion List?
☐ Yes ☐ No
- Have you knowingly solicited funds or other things of value for an organization on the U.S. Department of State Terrorist Exclusion List?
☐ Yes ☐ No
- Have you solicited any individual for membership in an organization on the U.S. Department of State Terrorist Exclusion List?
☐ Yes ☐ No
- Have you committed an act that you know, or reasonably should have known, affords "material support or resources" to an organization on the U.S. Department of State Terrorist Exclusion List?
☐ Yes ☐ No
- Have you hired or compensated a person you knew to be a member of an organization on the U.S. Department of State Terrorist Exclusion List, or a person you knew to be engaged in planning, assisting, or carrying out an act of terrorism?
☐ Yes ☐ No

If an applicant is prohibited from receiving a government contract or funding due to a positive indication on this form, the applicant may request the Ohio Department of Public Safety to review the prohibition. Please see the Ohio Homeland Security Web site for information on how to file a request for review.

CERTIFICATION

I hereby certify that the answers I have made to all of the questions on this declaration are true to the best of my knowledge. I understand that if this declaration is not completed in its entirety, it will not be processed and I will be automatically disqualified. I understand that I am responsible for the correctness of this declaration. I understand that failure to disclose the provision of material assistance to an organization identified on the U.S. Department of State Terrorist Exclusion List, or knowingly making false statements regarding material assistance to such an organization is a felony of the fifth degree. I understand that any answer of "yes" to any question, or the failure to answer "no" to any question on this declaration shall serve as a disclosure that material assistance to an organization identified on the U.S. Department of State Terrorist Exclusion List has been provided by myself or my organization. If I am signing this on behalf of a company, business or organization, I hereby acknowledge that I have the authority to make this certification on behalf of the company, business or organization referenced on page 1 of this declaration.

APPLICANT SIGNATURE X	DATE
---------------------------------	------

OHIO DEPARTMENT OF PUBLIC SAFETY
Division of Homeland Security

Terrorist Exclusion List

As of March 2009

U.S. Department of State List of Designated Foreign Terrorist Organizations

1. Abu Nidal Organization (ANO)
2. Abu Sayyaf Group
3. Al-Aqsa Martyrs Brigade
4. Ansar al-Islam
5. Armed Islamic Group (GIA)
6. Asbat al-Ansar
7. Aum Shinrikyo
8. Basque Fatherland and Liberty (ETA)
9. Communist Party of the Philippines/New People's Army (CPP/NPA)
10. Continuity Irish Republican Army
11. Gama'a al-Islamiyya (Islamic Group)
12. HAMAS (Islamic Resistance Movement)
13. Harakat ul-Mujahidin (HUM)
14. Hizballah (Party of God)
15. Islamic Jihad Group
16. Islamic Movement of Uzbekistan (IMU)
17. Jaish-e-Mohammed (JEM) (Army of Mohammed)
18. Jemaah Islamiya organization (JI)
19. al-Jihad (Egyptian Islamic Jihad)
20. Kahane Chai (Kach)
21. Kongra-Gel (KGK, formerly Kurdistan Workers' Party, PKK, KADEK)
22. Lashkar-e Tayyiba (LT) (Army of the Righteous)
23. Lashkar i Jhangvi
24. Liberation Tigers of Tamil Eelam (LTTE)
25. Libyan Islamic Fighting Group (LIFG)
26. Moroccan Islamic Combatant Group (GICM)
27. Mujahedin-e Khalq Organization (MEK)
28. National Liberation Army (ELN)
29. Palestine Liberation Front (PLF)
30. Palestinian Islamic Jihad (PIJ)
31. Popular Front for the Liberation of Palestine (PFLP)
32. PFLP-General Command (PFLP-GC)
33. al-Qa'ida
34. Real IRA
35. Revolutionary Armed Forces of Colombia (FARC)
36. Revolutionary Nuclei (formerly ELA)
37. Revolutionary Organization 17 November
38. Revolutionary People's Liberation Party/Front (DHKP/C)
39. Salafist Group for Call and Combat (GSPC)
40. Shining Path (Sendero Luminoso, SL)
41. Tanzim Qa'idat al-Jihad fi Bilad al-Rafidayn (QJBR) (al-Qaida in Iraq) (formerly Jama'at al-Tawhid wa'al-Jihad, JTJ, al-Zarqawi Network)
42. United Self-Defense Forces of Colombia (AUC)

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U.S. Department of State Terrorist Exclusion List

1. Afghan Support Committee (a.k.a. Ahya ul Turas; a.k.a. Jamiat Ayat-ur-Rhas al Islamia; a.k.a. Jamiat Ihya ul Turath al Islamia; a.k.a. Lajnat el Masa Eidatul Afghanistan)
2. Al Taqwa Trade, Property and Industry Company Ltd. (f.k.a. Al Taqwa Trade, Property and Industry; f.k.a. Al Taqwa Trade, Property and Industry Establishment; f.k.a. Himmat Establishment; a.k.a. Waldenberg, AG)
3. Al-Hamati Sweets Bakeries
4. Al-Ittihad al-Islami (AI) (AI)
5. Al-Manar
6. Al-Ma'unah
7. Al-Nur Honey Center
8. Al-Rashid Trust
9. Al-Shifa Honey Press for Industry and Commerce
10. Al-Wafa al-Igatha al-Islamia (a.k.a. Wafa Humanitarian Organization; a.k.a. Al Wafa; a.k.a. Al Wafa Organization)
11. Alex Boncayao Brigade (ABB)
12. Anarchist Faction for Overthrow
13. Army for the Liberation of Rwanda (ALIR) (a.k.a. Interahamwe, Former Armed Forces (EX-FAR))
14. Asbat al-Ansar
15. Babbar Khalsa International
16. Bank Al Taqwa Ltd. (a.k.a. Al Taqwa Bank; a.k.a. Bank Al Taqwa)
17. Black Star
18. Communist Party of Nepal (Maoist) (a.k.a. CPN(M); a.k.a. the United Revolutionary People's Council, a.k.a. the People's Liberation Army of Nepal)
19. Continuity Irish Republican Army (CIRA) (a.k.a. Continuity Army Council)
20. Darkazanli Company
21. Dhamat Houmet Daawa Salafia (a.k.a. Group Protectors of Salafist Preaching; a.k.a. Houmat Ed Daawa Es Salafiya; a.k.a. Katibat El Ahoual; a.k.a. Protectors of the Salafist Predication; a.k.a. El-Ahoual Battalion; a.k.a. Katibat El Ahouel; a.k.a. Houmate Ed-Daawa Es-Salafia; a.k.a. the Horror Squadron; a.k.a. Djamaat Houmat Eddawa Essalafia; a.k.a. Djamaatt Houmat Ed Daawa Es Salafiya; a.k.a. Salafist Call Protectors; a.k.a. Djamaat Houmat Ed Daawa Es Salafiya; a.k.a. Houmate el Da'awaa es-Salafiyya; a.k.a. Protectors of the Salafist Call; a.k.a. Houmat ed-Daaoua es-Salafia; a.k.a. Group of Supporters of the Salafiste Trend; a.k.a. Group of Supporters of the Salafist Trend)
22. Eastern Turkistan Islamic Movement (a.k.a. Eastern Turkistan Islamic Party; a.k.a. ETIM; a.k.a. ETIP)
23. First of October Antifascist Resistance Group (GRAPO) (a.k.a. Grupo de Resistencia Anti-Fascista Premero De Octubre)
24. Harakat ul Jihad i Islami (HUJI)
25. International Sikh Youth Federation
26. Islamic Army of Aden
27. Islamic Renewal and Reform Organization
28. Jamiat al-Ta'awun al-Islamiyya
29. Jamiat ul-Mujahideen (JUM)
30. Japanese Red Army (JRA)
31. Jaysh-e-Mohammed
32. Jayshullah
33. Jerusalem Warriors
34. Lashkar-e-Tayyiba (LET) (a.k.a. Army of the Righteous)
35. Libyan Islamic Fighting Group
36. Loyalist Volunteer Force (LVF)
37. Makhtab al-Khidmat
38. Moroccan Islamic Combatant Group (a.k.a. GICM; a.k.a. Groupe Islamique Combattant Marocain)

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39. Nada Management Organization (f.k.a. Al Taqwa Management Organization SA)
40. New People's Army (NPA)
41. Orange Volunteers (OV)
42. People Against Gangsterism and Drugs (PAGAD)
43. Red Brigades-Combatant Communist Party (BR-PCC)
44. Red Hand Defenders (RHD)
45. Revival of Islamic Heritage Society (Pakistan and Afghanistan offices -- Kuwait office not designated) (a.k.a. Jamia Ihya ul Turath; a.k.a. Jamiat Ihia Al- Turath Al-Islamiya; a.k.a. Revival of Islamic Society Heritage on the African Continent)
46. Revolutionary Proletarian Nucleus
47. Revolutionary United Front (RUF)
48. Salafist Group for Call and Combat (GSPC)
49. The Allied Democratic Forces (ADF)
50. The Islamic International Brigade (a.k.a. International Battalion, a.k.a. Islamic Peacekeeping International Brigade, a.k.a. Peacekeeping Battalion, a.k.a. The International Brigade, a.k.a. The Islamic Peacekeeping Army, a.k.a. The Islamic Peacekeeping Brigade)
51. The Lord's Resistance Army (LRA)
52. The Pentagon Gang
53. The Riyadus-Salikhin Reconnaissance and Sabotage Battalion of Chechen Martyrs (a.k.a. Riyadus-Salikhin Reconnaissance and Sabotage Battalion, a.k.a. Riyadh-as-Saliheen, a.k.a. the Sabotage and Military Surveillance Group of the Riyadh al-Salihin Martyrs, a.k.a. Riyadus Salikhin Reconnaissance and Sabotage Battalion of Shahids (Martyrs))
54. The Special Purpose Islamic Regiment (a.k.a. the Islamic Special Purpose Regiment, a.k.a. the al-Jihad-Fisi-Sabillillah Special Islamic Regiment, a.k.a. Islamic Regiment of Special Meaning)
55. Tunisian Combat Group (a.k.a. GCT, a.k.a. Groupe Combattant Tunisien, a.k.a. Jama'a Combattante Tunisien, a.k.a. JCT; a.k.a. Tunisian Combatant Group)
56. Turkish Hizballah
57. Ulster Defense Association (a.k.a. Ulster Freedom Fighters)
58. Ummah Tameer E-Nau (UTN) (a.k.a. Foundation for Construction; a.k.a. Nation Building; a.k.a. Reconstruction Foundation; a.k.a. Reconstruction of the Islamic Community; a.k.a. Reconstruction of the Muslim Ummah; a.k.a. Ummah Tameer I-Nau; a.k.a. Ummah Tameer E-Nau; a.k.a. Ummah Tameer-I-Pau)
59. Youssef M. Nada & Co. Gesellschaft M.B.H.

U.S. Treasury Department's Designated Charities and Potential Fundraising Front Organizations for FTOs

1. Makhtab al-Khidamat / Al Kifah (formerly U.S.-based, Pakistan)
2. Al Rashid Trust (Pakistan)
3. WAFA Humanitarian Organization (Pakistan, Saudi Arabia, Kuwait, United Arab Emirates)
4. Rabita Trust (Pakistan)
5. Ummah Tameer E-Nau (Pakistan)
6. Revival of Islamic Heritage Society - Pakistan and Afghanistan Branches (Kuwait, Afghanistan, Pakistan)
7. Afghan Support Committee (Afghanistan, Pakistan)
8. Al Haramain Foundation (Indonesia, Kenya, Pakistan, Tanzania, Bosnia, Somalia, Bangladesh, Afghanistan, Albania, Ethiopia, Netherlands, Comoros Islands, and United States branches)
9. Aid Organization of the Ulema (Pakistan)
10. Global Relief Foundation (United States)

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11. Benevolence International Foundation (United States):
12. Benevolence International Fund (Canada)
13. Bosanska Idealna Futura (Bosnia)
14. Stichting Benevolence International Nederland (Netherlands)
15. Lajnat al Daawa al Islamiyya (Kuwait, Pakistan, Afghanistan)
16. Al Akhtar Trust (Pakistan)
17. Taibah International (Bosnia)
18. Al Haramain & Al Masjed Al Aqsa Charity Foundation (Bosnia)
19. Al Furqan (Bosnia)
20. Islamic African Relief Agency (IARA) / Islamic Relief Agency (ISRA) (Sudan, United States and 40 other branches throughout the world)
21. The Holy Land Foundation for Relief and Development (United States)
22. Al Aqsa Foundation (United States, Europe, Pakistan, Yemen, South Africa)
23. Comité de Bienfaisance et de Secours aux Palestiniens (France)
24. Association de Secours Palestinien (Switzerland)
25. Interpal (Palestinian Relief & Development Fund) (United Kingdom)
26. Palestinian Association in Austria (Austria)
27. Sanibil Association for Relief and Development (Lebanon)
28. Elehssan Society (Palestinian territories)
29. Aleph (Aum Shinrikyo/Aum Supreme Truth)
30. Rabbi Meir David Kahane Memorial Fund (Kahane Chai and Kach)
 American Friends of the United Yeshiva (Kahane Chai and Kach)
 American Friends of Yeshivat Rav Meir (Kahane Chai and Kach)
 Friends of the Jewish Idea Yeshiva (Kahane Chai and Kach)
31. Irish Republican Prisoners Welfare Association (Real IRA)
32. Socorro Popular Del Peru/People's Aid of Peru (Sendero Luminoso/Shining Path)

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APPENDIX

A

Prevailing Wages

This project will utilize Ohio Prevailing Wage Rates.

Appendix A is intentional left blank for on-line advertising only.

Bidders official copy obtained from Engineering has the
“Affidavit of Compliance” Form and Prevailing Wage Rates
current at the time of bid.

APPENDIX

B

Minority Contract Provisions

APPENDIX B

SECTION 105.06 - MINORITY CONTRACT PROVISIONS; MINORITY
ENTERPRISE UTILIZATION COMMITMENT;

A. The Bidder agrees to expend at least \$ _____ of the Contract if awarded for minority business enterprises. For purposes of this pledge, the term "minority business enterprise" means a business at least 50 percent of which is owned by minority group members, or in case of publicly owned business, at least 51 per cent of the stock of which is owned by minority group members. For the purposes of the preceding sentence, minority members are citizens of the United States who are African Americans, Spanish-Speaking, Orientals, American Indians, Eskimos, Aleuts, and Females. Minority business enterprises may be employed as construction sub-contractors or as vendors or suppliers. The Bidder must indicate the minority business enterprise it intends to utilize in this document as follows:

Name/Address of Minority Firm	Nature of Participation	Dollar Value of Participation
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Total Bid Amount: _____ Total _____

Percentage of Minority Enterprise Participation: _____ %

B. The Bidder agrees to furnish implementation reports to indicate the minority business enterprises which it has or intends to utilize. The first report is due five (5) days after notification to the lowest and best bidder. The second report is due at 40% completion.

C. It is the goal of the City that at least 10 percent (10%) of the total of all contracts be expended for a bona fide minority business enterprise.

D. If the 10 percent (10%) minority business utilization cannot be met, a waiver can be granted by the Board of Control upon recommendation by the Service Director. To justify a waiver, it must be shown that every feasible attempt has been made to comply, and it must be demonstrated that sufficient, relevant, qualified minority business enterprises (which can perform sub-contracts or furnish supplies) are unavailable in the market area of the project to enable meeting the 10 percent (10%) minority business enterprise goal.

E. Failure to comply with the Minority Business Enterprise Utilization Commitment will not be grounds for the forfeiture of a bid bond so long as a “best effort” approach to comply with such commitment can be demonstrated. If such compliance cannot be obtained, the bidder shall furnish written evidence to justify that he has made “best efforts” to comply with the Minority Business Enterprise Assistance Program. A representative of the City of Canton will monitor and determine whether or not a good faith effort to comply with the Minority Business Enterprise Commitment has been made.

F. In light of the above, the Board of Control will still award the contract to the lowest and best bidder. Breach of the commitment constitutes breach of the Bidder’s contract, if awarded.

G. The undersigned hereby certifies that he or she has read the terms of the commitment and is authorized to bind the Bidder to the commitment herein set forth.

Name/Title of Authorized Officer

Signature of Authorized Officer

Date

PROJECT: WAYNESBURG DRIVE SE SANITARY SEWER REHABILITATION (REVISED),
G.P. 1137

LETTER OF ASSURANCE

The _____ company hereby certifies that they will comply with the required goals and timetables pertaining to minority and female participation in all trades. The _____ company agrees to comply with the required 10% minority participation goal.

All bidders, contractors and subcontractors to perform work on _____ are subject to the above stated requirements and agree to comply with all local, state and Federal EEO, MBE, and labor requirements applicable to this project and further agree to complete and/or submit all necessary documents to the City of Canton's Compliance Office prior to the awarding of any contract for this project.

The _____ company also agrees to expend at least 10% of the dollar amount of any contract awarded for this project to Minority Business Enterprises.

Failure to submit this letter of assurance will make the bidder's bid non-valid and failure to comply with the applicable local, state and Federal EEO, MBE and labor requirements are basis for termination of any contract awarded for this project.

Company or Partnership

Federal ID #

President or Other Official Title

Telephone #

Date

(Seal)

Subscribed and sworn to before me, this _____ day of _____, 20 _____.

Notary Public in and for the County of _____,

State of _____.

My commission expires on the _____ day of _____, 20 _____.

TO BE FILLED OUT WITH BID

APPENDIX

C

Bidder and Contractor Employment Practices Report

PLEASE FILL OUT THIS FORM AND RETURN PROMPTLY TO THE ADDRESS BELOW

BIDDER AND CONTRACTOR EMPLOYMENT PRACTICES REPORT

Minority Coordinator
218 Cleveland Avenue SW
Canton, Ohio 44702

I. INSTRUCTIONS

- A. **EQUAL EMPLOYMENT OPPORTUNITY REQUIREMENT:** This form is designed to provide an evaluation of your policies and practices relating to the extension of equal employment opportunity to all persons without regard to race, religion, color, sex or national origin.

Ordinance No. 179-74 of the City of Canton and the rules and regulations pursuant thereto provide for a contract compliance inspection of personnel policies and practices related to any contract with the City including contracts for work, labor, services, supplies, equipment, materials, leases, concession agreements, and permits.

- B. **CONTRACTOR AND BIDDER PERFORMANCE:** Completion of this Contractor and Bidder Employment Practices Report is one of the steps which demonstrates compliance with the City's Equal Employment Opportunity Program. Responsibility for demonstrating compliance with the Program by the contractor and his subcontractors rests with the contractor or subcontractor. Such demonstration is a prerequisite for continued eligibility for bidding on city contracts, or for continuing in contract with the City.

II. CONTRACTOR AND BIDDER INFORMATION

1. REPORTING STATUS			
<input type="checkbox"/> a. Prime Contractor	<input type="checkbox"/> b. Prime Subcontractor	<input type="checkbox"/> c. Supplier	<input type="checkbox"/> d. Other (Specify)
2. NAME, ADDRESS AND TELEPHONE NUMBER OF BIDDER COVERED BY THIS REPORT			
3. NAME, ADDRESS AND TELEPHONE NUMBER OF PRINCIPAL OFFICIAL OR MANAGER OF BIDDER			
4. NAME, ADDRESS AND TELEPHONE NUMBER OF PRINCIPAL OFFICE OF BIDDER			
5. CONTRACTING CITY AGENCY (OR AGENCIES)			
6. SIGNATURE AND TITLE OF AUTHORIZED EQUAL EMPLOYMENT OPPORTUNITY REPRESENTATIVE DATE			

EVALUATION (level blank)

☐ Compliance

☐ Non-Compliance

☐ Follow-up _____

III. POLICIES AND PRACTICES

The bidder and the Contractor will indicate his willingness or unwillingness to comply with the requirements of the Equal Employment Opportunity Program of the City of Canton by encircling the appropriate or applicable letter to the left of each item below. The letters are to be interpreted as follows:

- A - This is now a practice of the Company.
- B - The Company will adopt this policy.
- C - The Company cannot or will not adopt this policy. (If "C" is circled, state reason. Use separate sheet if additional space is needed.)

It is understood that the Company's willingness to participate in the Equal Employment Opportunity Program will be evaluated by the Office of Directors of Contract Compliance. This evaluation will directly influence our decision on the qualifications of each bidder and contractor, and is an integral part of your bid.

CIRCLE ONE	ITEMS	STATE REASON IF (C) IS CIRCLED
A B C	1. The Company will adopt a policy of non-discrimination on the basis of race, religion, color, sex, or national origin with regard to recruitment, hiring, training, upgrading, promotion and discipline of employees or applicants for employment.	
A B C	2. The Company will develop procedures which will assure that this policy is understood and carried out by managerial, administrative, supervisory personnel.	
A B C	3. The Company will state its non-discriminatory policy in writing and communicate it to the following: <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> a. All employees b. All recruitment sources c. All subcontractors </div> <div style="width: 45%;"> d. All relevant employee organizations including labor unions </div> </div>	
A B C	4. The Company will use recruitment sources such as employment agencies, unions, and schools which have a policy of referring applicants on a non-discriminatory basis.	
A B C	5. The Company will participate in training programs for the benefit of employees or prospective employees, according to the intent of City Ordinance Number 179-74.	
A B C	6. Company recruiters will seek a broad recruitment base in order that a representative cross-section of applications might be obtained, and will refrain from a hiring policy which limits job applicants to persons recommended by company personnel.	
A B C	7. The Company will take steps to integrate any position, departments, or plant locations which have no minority persons including African Americans or are almost completely staffed with one particular ethnic or racial group.	
A B C	8. The Company will review its qualifications for each job to determine whether such standards eliminate unemployed persons who could, if hired, perform the duties of the job adequately. The following qualifications should be reviewed: <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> a. education b. experience </div> <div style="width: 45%;"> c. tests d. arrest records </div> </div>	
A B C	9. Residence in a particular geographical area will not be a qualifying or disqualifying criterion for employment with the Company.	
A B C	10. The Company will provide that all bargaining agreements with employee organizations, including labor unions, have non-discrimination clauses requiring equal employment opportunity.	

IV. EMPLOYMENT DATA

Please note that this data may be obtained by visual survey or post-employment records. Neither visual surveys nor post-employment records are prohibited by any Federal, State or local law. All specified data are required to be filled in by law.

JOB CATEGORIES	ALL EMPLOYEES			MINORITY GROUP EMPLOYEES							
	TOTAL MALE & FEMALE	MALE	FEMALE	MALE				FEMALE			
				African American	Asian American	Native American	Hispanic	African American	Asian American	Native American	Hispanic
Officials, Mgrs and Supervisors											
Professionals											
Technicians											
Part-Time Seasonal											
Office and Clerical											
Craftsmen (Skilled)											
Operatives (Semi-skilled)											
Laborers (Unskilled)											
Service Workers											
TOTAL											
Total employment from previous report (if any)											

REMARKS Use this space to give any identification data appearing on last report which differs from that given above, explain major changes in employment, changes in composition of reporting units, and other pertinent information.

The undersigned certifies that he is legally authorized by the bidder to make the statements and representations contained in this report. That he has read all of the foregoing statements and representations and that they are true and correct to the best of his knowledge and belief. The undersigned, understands that if any of the statements and representations are made knowing them to be false or there is a failure to implement any of the stated intentions or objectives, set forth herein, without prior notice to the Office of Contract Compliance, the bidder will be subject to the loss of all future awards.

FIRM OR CORPORATE NAME _____

DATE OF SIGNING _____

SIGNATURE _____

TITLE _____

SIGNATURE _____

TITLE _____

V. ADDITIONAL INFORMATION (OPTIONAL)

Describe any other actions taken which show that all employees are recruited, hired, trained, and promoted without regard to their race, religion, color, sex, or national origin. Use separate sheet if additional space is required.

DESCRIPTION OF OCCUPATIONAL CATEGORIES

Officials, managers and supervisors - Occupations requiring administrative personnel who set broad policies, exercise over-all responsibility for execution of these policies, and direct individual departments or special phases of a firm's operations. Includes officials, executives, middle management, plant managers, department managers and superintendents, salaried foremen who are members of management, purchasing agents and buyers, and kindred workers.

Professionals - Occupations requiring either college graduation or experience of such kind and amount as to provide a comparable background. Includes accountants and auditors, airplane pilots and navigators, architects, artists, chemists, designers, dietitians, editors, engineers, lawyers, librarians, mathematicians, natural scientists, physicians, social scientists, teachers, and kindred workers.

Technicians - Occupations requiring a combination of basic scientific knowledge and manual skill which can be obtained through about 2 years of post high school education, such as is offered in many technical institutes and junior colleges, or through equivalent on-the-job training. Includes draftsmen, engineering aids, junior engineers, mathematical aids, nurses, photographers, radio operators, scientific assistants, surveyors, technical illustrators, technicians, (medical, dental, electronic physical sciences), and kindred workers.

Sales workers - Occupations engaging wholly or primarily in direct selling. Includes advertising agents and salesmen, insurance agents and brokers, stock and bond salesmen, demonstrators, salesmen and sales clerks and kindred workers.

Office and clerical - Includes all clerical type work regardless of level of difficulty, where the activities are predominantly nonmanual though some manual work not directly involved with altering or transporting the products is included. Includes bookkeepers, cashiers, collectors (bills and accounts), messengers and office boys, office machine operators, shipping and receiving clerks, stenographers, typists and secretaries, telegraph and telephone operators, and kindred workers.

Craftsmen (Skilled) - Manual workers of relatively high skill level having a thorough and comprehensive knowledge of the processes involved in their work. Exercise considerable independent judgement and usually receive an extensive period of training. Includes the building trades hourly paid foremen and leadmen who are not members of management, mechanics and repairmen, skilled machining occupations, compositors and typesetters, electricians, engravers, job setters (metal), motion picture projectionists, pattern and model makers, stationary engineers, tailors and tailoresses, and kindred workers.

Operatives - (Semi-Skilled) - Workers who operate machine or processing equipment or perform other factory-type duties of intermediate skill level which can be mastered in a few weeks and require only limited training.

Laborers (Unskilled) - Workers in manual occupations which generally require no special training. Perform elementary duties that may be learned in a few days and require no independent judgement. Includes garage laborers, car washers and greasers, gardeners (except farm) and groundskeepers, longshoremen and stevedores, lumbermen, raftsmen and wood choppers, laborers performing lifting, digging, mixing, loading, and pulling operations, and kindred workers.

Service workers - Workers in both protective and nonprotective service occupations. Includes attendants (hospital and other institution, professional and personal service), barbers, charwomen and cleaners, cooks (except household), counter and fountain workers, elevator operators, firemen and fire protection, guards, watchmen, and doorkeepers, stewards, janitors, policemen and detectives, porters, waiters and waitresses, and kindred workers.

Apprentices - Persons employed in a program including work training and related instruction to learn a trade or craft which is traditionally considered an apprenticeship, regardless of whether the program is registered with federal or State agency.

APPENDIX D Project Utility Note

While this note has been provided by the City to assist the contractor with utility coordination, it is the sole responsibility of the contractor to coordinate and insure the relocation of modifications to all utilities. The City and State are not responsible for any cost associated with the non-timely relocation or delays caused by utility work or the cost of the relocation work itself.

Project Utility Note: There may be subsurface and aerial utility relocation due to conflicts with this project. The Contractor will relocate storm utilities, sanitary sewer utilities and water utilities in accordance with the project plans and specifications.

Electric Utilities – AEP has existing overhead transmission lines. Contractor may be working within AEP easements. All precautions must be utilized to avoid contact with the overhead lines.

Telephone Utilities – See Plan Sheet 7 of 10 – Utility location does not conflict with the proposed C.I.P.P. work.

Cable Utilities – See Plan Sheet 7 of 10 – Utility location does not conflict with the proposed C.I.P.P. work.

Natural Gas Utilities – See Plan Sheet 7 of 10 – Utility location does not conflict with the proposed C.I.P.P. work.

Water Utilities – See Plan Sheet 7 of 10 – Utility location does not conflict with the proposed C.I.P.P. work.

Storm Utilities – An existing 48” diameter CMP culvert pipe will be removed and replaced under this contract. See Plan Sheet 8 of 10.

APPENDIX

E

Project Sign

(NOT REQUIRED)

APPENDIX

F

Claims Management

and

Change Order Policies

City of Canton Engineering Department's Claims Management Policy

The City of Canton recognizes the need to contend with claims experienced by the contractor that are not addressed by the contract. This policy acts as directive to provide stability and expertise in the management of its claims and to ensure they are investigated, evaluated, and resolved in a timely and professional manner.

Claims

A dispute is not identified as a claim until a *Notice of Intent to File a Claim*. The *Notice of Intent to File a Claim* cannot be made until Steps 1 and 2 are completed. A claim is defined as formal assertion by the contractor for something due or believed to be due to the contractor. This claim may include monetary compensation and/or time extension for the completion of the contract. All claims must be presented by the Prime Contractor. Claims submitted by a sub-contractor or supplier against the City or Prime Contractor shall not be accepted.

Purpose

This policy attempts to resolve disputes in a fair and cost-effective manner. The documentation resulting from this procedure will provide information needed to make a reasonable and un-biased decision. City of Canton Engineering acknowledges that costs can be kept to a minimum when the resolution is found at the departmental level.

Process

The Contractor must follow this policy to be eligible for any compensation (time or monetary) for any and all claims not covered by the Change Order Policy. All steps in the policy must be completed prior to moving to the next step. The Contractor shall continue with all Work, including that which is in dispute. The City will continue to pay for work being performed.

Prior to entering into the formal claim resolution process, both the contractor superintendent and the City's Inspector and Construction Manager agree to attempt to resolve any disputes in a good faith effort that is fair and equitable to both the contractor and the City within the guidelines and requirements established by the contract. If this good faith effort does not resolve the problem, the contractor may proceed into the Claims Management Procedure.

Step 1 City Project Manager

The City Project Manager shall meet with the Contractor's superintendent and City Construction Inspector within two (2) working days of receipt of the Contractor Written Early Notice set forth in 104.02.G of the ODOT Construction and Material Specifications. The City Project Manager will negotiate in an effort to reach a resolution according to the Contract Documents. The City Project Manager will issue a written decision of Step 1 within fourteen (14) calendar days of the meeting. If the dispute is not resolved, the Contractor must either abandon or escalate the dispute to Step 2. The claim along with all pertinent information and contract provisions shall be presented to the City Project Manager by the contractor and City representatives.

Step 2 City Engineer

Within seven (7) calendar days of receipt of the Step 1 decision, the Contractor must submit a written request for a Step 2 meeting to the City Engineer. The City Engineer will assign the dispute a dispute number. Within fourteen (14) calendar days of receipt of the request for a Step 2 meeting, the Contractor shall submit the Dispute Documentation as follows:

1. The Contractor shall submit three (3) complete copies of the documentation of the dispute to the City Engineer.
2. The Dispute Documentation shall be identified on a cover page by GP# (project number), Contractor name, subcontractor or supplier if involved in the dispute, and dispute number.
3. The Dispute Documentation shall be an original document that clearly and in detail gives the required information for each item of additional compensation and time extension requested.
4. A narrative of the disputed work or project circumstance at issue. This section must include the dates of the disputed work and the date of early notice.
5. References to the applicable provisions of the plans, specifications, proposal, or other contract documents. Copies of the cited provisions shall be included in the Dispute Documentation.
6. The dollar amount of additional compensation and length of contract time extension being requested.
7. The cost and supporting documents that served as the basis for the requested compensation stated in number six (6) above.
8. A detailed schedule analysis must be included in the Dispute Documentation for any dispute concerning additional contract time, actual or constructive acceleration, or delay damages. At a minimum, the schedule analysis must include the Schedule Update immediately preceding the occurrence of the circumstance alleged to have caused delay and must comply with accepted industry practices. Failure to submit the required schedule analysis will result in the denial of that portion of the Contractor's request.
9. Copies of relevant correspondence and other pertinent documents.

The City Engineer shall review and recommend a resolution to the claim. If recommended by the City Engineer, the process will cease and the claim will be processed as a Change Order. Otherwise, the City Engineer will meet with the contractor's representative, the City Project and Construction Managers within fourteen (14) days to hear each party's stance and as a last chance opportunity to resolve the claim before escalating to Step 3. The City Engineer will issue a written determination of Step 2 to the contractor and project file within fourteen (14) days. If the dispute is not resolved, the Contractor must either abandon or escalate the dispute to Step 3.

Step 3 Canton Service Director

Within fourteen (14) calendar days of receipt of the Step 2 decision, the Contractor must submit a written *Notice of Intent to File a Claim* to the Canton City Service Director. This notice shall state the Contractor's request for a Canton Service Director hearing on the claim. The dispute becomes a claim when the Service Director receives the *Notice of Intent to File a Claim*. The City of Canton Law and Purchasing Departments will provide advice to the Canton Service Director. The Canton Service Director will be responsible for deciding claims.

The Contractor shall submit six (6) complete copies of its Claim Documentation to the City Engineer within thirty (30) calendar days of receipt of the *Notice of Intent to File a Claim*. This time frame may be extended upon mutual agreement of the parties and with approval of the Committee. In addition to the documentation submitted at Step 2, the narrative shall be enhanced to include sufficient description and information to enable understanding by a third party who has no knowledge of the dispute or familiarity with the project. This documentation must also include a discussion of the efforts taken to resolve the dispute. When submitting the Claim Documentation, the Contractor must certify the claim in writing. Such certification shall attest to the following:

1. The claim is made in good faith.
2. To the best of the Contractor's knowledge, all data offered to support the claim is accurate and complete.
3. The claim amount accurately reflects the Contractor's actual incurred costs and additional time impacts.

This claim certification shall also be notarized pursuant to the laws of the State of Ohio.

Canton Engineering Change Order Policy

The need for a Change Order for work or materials not included in the scope of the contract or exceeding plan quantities may occur at any time during the contract. The City of Canton Construction Manager or the City of Canton Contractor may initiate the Change Order process. The City of Canton Project Inspector will document the date that the change is first encountered. The City of Canton Construction Manager will determine if a change in the contract is needed. (Note: City of Canton Project Inspector may be a Consultant Construction Contract Administrator or the Canton Project Inspector assigned to the project.) The project record shall include record of all changes.

Change Orders will be categorized into the following Tiers:

Tier 1:

A quantity adjustment for projects less than \$500,000.00 cannot exceed \$25,000.00 to qualify as a Tier 1 Change Order. A quantity adjustment for projects greater than \$500,000.00 cannot exceed the lesser of 5% or \$100,000.00 to qualify as a Tier 1 Change Order. The change of the quantities will be adjusted on a Change Order that will address these changes after an accumulation of adjustments for the project is received. Requests for adjustment may occur at any time before the final payment is made.

Tier 2:

Changes that cannot be addressed using contract unit prices, exceed the Tier 1 limits, extend the contract limits, or change the environmental impact will be presented formally on a Change Order. Contractor shall submit an estimated cost and scope of the work to be performed to the City of Canton Project Manager. The City of Canton Project Manager will assemble the documentation, including purpose and analysis of the cost of the proposed change for submission to the City of Canton Construction Manager. City of Canton Construction Manager shall review the submitted documentation for availability of funds, acceptability of costs and need for the said changes. Further, the City of Canton Construction Manager will secure concurrence from City of Canton Project Manager Construction Monitor and make recommendation to the Canton City Engineer for acceptance.

The Change Order will then be recommended to the Board of Control for approval. If the sum of all Change Orders exceeds the lesser of \$100,000.00 or 10% of the total of the original contract cost, the Change Order will be presented to the Canton City Council for approval before being submitted to the Board of Control.

Execution of the work will not be performed until authorization is given to the contractor from the City of Canton. In the event that an agreed price cannot be negotiated, City of Canton will adhere to force account procedures.

Authorization of Change Order Work:

Tier 1:

The Canton City Engineering will authorize the work prior to submission of the Change Order. Contractor cannot proceed until such authorization.

Tier 2:

The contractor must receive written authorization, from the Canton City Engineer, before the execution of any of the Change Order work. This authorization will not be given until the Change

Order has been approved by the Board of Control, Canton City Council, and ODOT, as needed. The Canton City Engineer may override Tier 2 Authorization procedure for any circumstances to assure safety, environment, or protection of property.

NOTE: Canton City Council must approve all Change Orders prior to authorization for both Tier 1 and Tier 2 should the individual or aggregate cost of all Change Orders exceed the lesser of \$100,000.00 or 10% of the project original cost.

The following is an example of the correct form for a claim certification:

(The Contractor) certifies that this claim is made in good faith, that all supporting data is accurate and complete to the best of (the Contractor's) knowledge and belief, and that the claim amount accurately reflects the contract amendment for which (the Contractor) believes the City of Canton is liable.

By: _____
(The Contractor, Name and Title)
Date of Execution: _____

Within thirty (30) calendar days of receipt of the Contractor's Claim Documentation, the City Engineer shall submit six (6) complete copies of its Claim Documentation to the Canton Service Director. In the event that the Contractor is granted a time extension for the submission of its Claim Documentation, the City Engineer will be granted an equal time extension for submission of its Claim Documentation. At a minimum, the City Engineer's Claim Documentation must include:

1. A narrative of the disputed work or project circumstance at issue with sufficient description and information to enable understanding by a third party who has no knowledge of the dispute or familiarity with the project. This section must include the dates of the disputed work and the date of early notice. The narrative must also discuss the prior efforts taken to resolve the dispute.
2. References to the applicable provisions of the plans, specifications, proposal, or other contract documents. Copies of the cited provisions shall be included in the claim document.
3. Response to each argument set forth by the Contractor.
4. Any counter-claims, accompanied by supporting documentation, the Canton Service Director Claims Committee wishes to assert.
5. Copies of relevant correspondence and other pertinent documents.

Within fourteen (14) calendar days of receipt of the Construction Manager's Claim Documentation, the City Engineer will forward one (1) complete copy to the Contractor and will schedule a hearing on the dispute. Once a hearing date has been established, both the Contractor and Construction Manager shall provide the Canton City Engineer with the list of names and telephone numbers of each person who may present information at the hearing. Reasonable time, generally not to exceed 60 days, will be provided for submission and review of additional documentation by either party prior to the hearing date. However, unless otherwise permitted by the Committee, the exchange of documentation and all disclosures specified in this step of the process shall be completed at least fourteen (14) calendar days prior to the hearing. Upon request or at the Committee's discretion, the Committee may delay the hearing one (1) time to allow more time for review and requests for more documentation. In the event of multiple claims, the Committee may order that they be considered in

a single hearing. The Committee may hold this hearing after the completion of the project or until such time that it is assured that all disputes on the project have been processed through Steps 1 and 2. The Contractor and Construction Manager will each be allowed adequate time to present their respective positions before the Committee. The Contractor and Construction Manager will also each be allowed adequate time for one (1) rebuttal limited to the scope of the opposing party's presentation. The Contractor's position will be presented by a Contractor's representative who is thoroughly knowledgeable of the claim. Similarly, the Construction Manager's position will be presented by the Construction Manager or a representative who is thoroughly knowledgeable of the claim. Each party may have others assist in the presentation. The Committee may, on its own initiative, request information of the Contractor in addition to that submitted for the hearing. If the Contractor fails to reasonably comply with such request, the Committee may render its decision without such information. Upon completion of the hearing and consideration of any additional information submitted upon request, the Committee will submit a written recommendation on the disposition of the claim to the Canton Service Director. The Canton Service Director will ratify, modify, or reject the recommendation of the Committee and render its decision within sixty (60) calendar days of the hearing. Within thirty (30) calendar days of receipt of the Committee's decision, the Contractor must either accept or reject the decision in writing. In the event the Contractor fails to do so, the Committee may revoke any offers of settlement contained in the decision. The decision of the Committee is the final step of Canton Engineering Department Dispute Resolution Process and may not be appealed within the Department. The Committee is not bound by any offers of settlement or findings of entitlement made during Steps 1 and 2 of the Dispute Resolution Process.

Acknowledgements.

Similarities in language and procedure to ODOT Proposal Note 109 are deliberate. An attempt is being made to model the ODOT's Dispute Resolution and Administrative Claim Process. This attempt is being made to standardize and create a uniform practice across the industry.

APPENDIX

G

Cost Proposal

P R O P O S A L

Canton, Ohio, _____ 20 ____

To the Service Director of the City of Canton:

The undersigned, having carefully examined the site of the proposed work, the plans, profiles and standard drawings and specifications therefor, herewith propose to furnish all the labor and materials required for Waynesburg Drive SE Sanitary Sewer Rehab., G.P. 1137 including any and all work and materials that may be necessary to connect the work to be done with the adjoining work, in a proper and workmanlike manner, and in accordance with drawings on file in the office of the City Civil Engineer, and upon the terms and conditions of the within specifications and under the direction of and to the satisfaction of the City Engineer and the Service Director of said City.

The bidder herein agrees that the Service Director has the right to reject any or all bids and that the bidder shall not dispute the correctness of the quantities used in computing the lowest and best bid.

The bidder hereby certifies that the undersigned _____ the only person interested in the bid and the bidder herewith certifies that no officer or employee of the City of Canton is in any manner interested therein. The bidder agrees that should all or either of said bids be accepted, to enter into the prescribed contract within ten (10) days from and after the date of service of notice of such acceptance, for the faithful performance of the labor and furnishing of the materials in such bid or bids so accepted, and to fully complete the said work within 120 calendar days.

The bidder herewith encloses a bond or certified check _____ in the sum of _____ dollars made payable to the Service Director of the City of Canton as guaranty that if awarded the contract for the work included in this proposal, _____ will enter into contract therefor, with sureties satisfactory to the Service Director, within the prescribed time of ten (10) days from the date of service of notice of award, otherwise such bond or check shall become the property of said City, as liquidated damages of the failure on the Bidder's part to so contract within specified time.

ADDRESS

RESPECTFULLY SUBMITTED

Bidder

	ODOT Item No./ Ref. No.	Description	Unit	Est. Quantity	Unit Cost	Total Cost
1	623	CONSTRUCTION STAKING				
2	SR - 1	18" PVC SDR-26 SANITARY SEWER WITH CONCRETE ENCASEMENT, AS PER PLAN	LUMP	1		
3	SL - 1	18" SANITARY SEWER LINING - C.I.P.P., AS PER PLAN AND STANDARD SPECIFICATIONS	L.F.	50		
4	BP-1	TEMPORARY BYPASS PUMPING (SEWER), AS PER PLAN	L.F.	172		
5	614	MAINTENANCE OF TRAFFIC, AS PER PLAN	LUMP	1		
6	603/RQ-1	REMOVE AND REPLACE STORM CULVERT - 48" HDPE (PER ODOT 707.33)	LUMP	1		
7	SPECIAL	SOIL EROSION CONTROL PLAN, CREEK/STREAM DIVERSION & TRENCH DEWATERING, AS PER PLAN	L.F.	24		
			LUMP	1		

Not for Reproduction for Bidding Purposes

Resin Type (Circle One):

Polyester

Orthothalic

Vinylester

Tube Type (Circle One):

Fiberglass (cured with Ultraviolet Light)

Felt (cured with hot water or steam)

Liner Thickness:

Not for Reproduction for Bidding Purposes

Note: Attach additional technical information as required in Sections 02957A and 02957B, as applicable.

TOTAL BID \$ _____

For informational purposes only, total unit prices will govern.

In order to be considered as a responsive bidder, bidders must obtain plans, specifications, and proposal blanks from the office of the Engineering Department at 2436 30th St. N.E., for the sum of \$55.00 payment. The City will not make any refunds for plans returned.

